Partnership for Assessment of Readiness for College and Careers (PARCC) Assessments Online Update

MSDE Response to House Bill 70

Maryland State Department of Education

Division of Curriculum, Assessment, and Accountability

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Introduction:

The purpose of this report is to provide an update to the legislative budget committees on the progress made toward administering the Partnership for Assessment of Readiness of College and Careers (PARCC) assessments online. The Maryland State Department of Education (MSDE) is tasked with addressing the following four elements:

A. The number of students and percent of the total tested population taking the PARCC exams in the online versus paper-based format;

B. Any technical problems encountered by MSDE or the local education agencies (LEAs) in the preparation, administration, and evaluation of the PARCC exams;

C. The progress made by the LEAs in addressing previously identified technological issues regarding the implementation of PARCC and digital learning; and

D. Any outstanding or newly identified issues related to the implementation of PARCC and the advancement of digital learning.

Part 1 of this report focuses on the information related to the PARCC assessments. The responses to the four elements follow the same letting as indicated above.

Part 2 of this report focuses on digital learning.

A. The number of students and percent of the total tested population taking the PARCC exams in the online versus paper-based format

For the 2014-2015 administration, the PARCC assessments contained two parts, the Performance-based Assessment (PBA) window and the End of Year (EOY) window. The table below includes a state level summary of the participation by mode of delivery for each administration.

PARCC State Totals:

Test Administration	Paper-Completed	Online-Completed	Totals	% Paper	% Online
PBA	165,435	734,161	893,820	18%	82%
EOY	163,890	729,930	899,596	18%	82%

The detail behind this summary is included as an attachment. Attachment 1 includes the number of students and percent of the total tested population taking the PARCC tests in the online versus paper-based format by LEA, by mode of delivery, and by test.

B: Any technical problems encountered by MSDE or the local education agencies (LEAs) in the preparation, administration, and evaluation of the PARCC exams

The PARCC assessments in English Language Arts and mathematics were administered for the first time to students in grades 3-8 and high school (algebra, English 10) during the 2014-2015 school year. In order to determine issues and concerns related to the first administration, the MSDE worked with local school districts throughout the administration period and beyond to identify the concerns of district staff, school leaders, teachers, parents and students.

Through initial surveys and feedback, when planning for the first administration, the greatest concerns were related to the number of available devices to test students online and the overall test time for students. Districts initially reported needing roughly 75% paper for the first administration. MSDE then budgeted accordingly. Through subsequent preparations, grant appropriations, and scheduling creativity, districts were able to assess roughly 82% of their students online generating a savings greater than $2,200,000.

Maryland was not alone with its concern over test time. Other states within the consortium had similar concerns, which led to action to make changes to the PARCC assessment program beginning in 2015-2016. The original PARCC design included two administration windows: the performance-based window (PBA) and the end of year window (EOY). This model allowed for the existence of hand-scored constructed response type items and timely reporting of the results. Stakeholders shared that this simply was not practical; thus, the consortium made a decision to collapse the PBA and EOY windows into one testing window. Starting spring, 2016, the single window will occur when students have completed 80% of the school year and/or the course (high

school). The length of the test was also reduced by an average of 90 minutes in both subject areas.

While these decisions by consortium members alleviated some of the problems for school districts, other issues remain. MSDE recently conducted a survey of local school district personnel to determine specific areas of concern and to gain knowledge around current issues that need to be addressed prior to 2015-2016 PARCC administration. Twenty (out of twenty-four) local school districts responded to the survey. Each local school district was asked to address the following questions:

1. List the top 5 issues/problems your district experienced with the administration of the PARCC assessments during the 2014-2015 school year.
2. What issues still raise concern for your district in preparation for assessment administration during the 2015-2016 school year?
3. What specific technology challenges do you continue to have around the implementation of online assessments? Will these issues be resolved by the beginning of the school year 2016-2017? Will your district be fully prepared in the area of technology for online assessments and other related instructional programs?

The table identified as Attachment 2 contains a summary of the issues identified by the school districts as well as by the Department and reports whether as of October 20, 2015, the issue is new/unaddressed, ongoing/in process, or resolved.

C. The progress made by the LEAs in addressing previously identified technological issues regarding the implementation of PARCC

More than 575,000 students in Maryland participated in the 2014-2015 administration of the PARCC assessments. Approximately 82% assessed online. Districts were able to successfully overcome issues related to the number of available devices, scheduling, configuring devices, and available bandwidth. The administration went smoothly with few relatively minor issues. This is a tribute to both the assessment staff and their ability to collaborate with the technology staff within each of the locals. Greater detail of the issues reported by LEAs and how they are/were addressed can be found in Attachment 2 of this report.

D. Any outstanding or newly identified issues related to the implementation of PARCC

There are no "newly identified issues" at the time when this report was drafted. With that said, however, the table identified as Attachment 2 contains all outstanding issues and is reviewed and updated with local school districts during weekly local accountability coordinator (LAC) teleconferences and quarterly face-to-face LAC meetings. The table is also shared at each State Board of Education meeting as a regular agenda item and can be found within each meeting's minutes.

Part 2: State of Digital Learning in Maryland Today

As evidenced by the progress noted in the Digital Learning Now Report Card (Foundation for Excellence in Education, 2014) and Keeping Pace (Evergreen Education Group, 2014), school systems in Maryland have been working toward the integration of digital resources into instruction to support teaching and learning. Maryland School Systems understand the value and benefit of incorporating digital resources into the classrooms and are striving to create student centered environments. Many have a target of 1:1 student to device access. Others are finding ways to broadcast classroom instruction from one school to another. Enrollment in online student courses has risen from **647** in school year 2011–2012 to **5,206** for school year 2014–2015. Over the past two years, Digital Innovation Grant funding has provided multiple school systems with seed money to institute some innovative initiatives.

Race to the Top Funding allowed the State to develop and offer:

- A powerful one-stop access portal for all stakeholders, Learn MD, that includes access to a multi-state Resource Exchange of searchable digital resources, Dashboards, and other State supported systems
- 8 Student Online STEM Courses: Cyber Security; Administration of Justice II; Environmental Science; Video Game Design; Foundations of Computer Science; Computer Science Concepts and Principles; Financial Literacy; Foundations of Technology
- 13 Adolescent Literacy Student Modules
- 8 STEM Student Modules
- 6 Algebra II Student Modules
- 320 Intervention/Enrichment Student Modules – English Language Arts, Mathematics, Disciplinary Literacy for Science and Social Studies
- 2 PARCC Assessment Student Blended Courses – 12 modules each
- 6,000 searchable teacher and student digital resources
- 21 Professional Development Courses

2013-2014 Digital Learning Innovation Grant Funding Initiatives

Frederick County Public Schools
This project transformed traditional 8th grade ELA and Science classrooms in thirteen middle schools through the development and implementation of transdisciplinary Project Based Learning. A series of PBL units were written by teachers to include digital tools that enhance creativity, communication, critical thinking and collaboration among students and teachers. A professional learning program was developed and implemented that supported all 8th grade ELA and Science teachers as they implemented the units into their classrooms and expanded their knowledge, skill and confidence in integrating technology effectively. An external evaluator was hired to assess the progress and effectiveness of the pilot.

Garrett County Public Schools

This "Telepresence" project provided the ability for students, teachers, and professionals throughout Garrett County and the world to synergize without the restraints of location or walls. The County school system faced school closings, reduction of certified staff and redrawing of school districts forcing the reconfiguration of grades by building a K-3, 4-6, 7-12 model. By placing Polycom Video Conference/Telepresence equipment in four targeted schools, Garrett County teachers were able to broadcast courses from a base school to satellite schools, communicate among classes and schools, connect with professionals around the world, and offer AP courses that were previously unavailable due to low enrollment or lack of a certified teacher in the school. The professional growth included an initial focus on the use of technologies followed by a shift in the instructional applications of the program through horizontal and vertical grade level collaboration, and reflections based on data collection.

Baltimore County Public Schools

This project targeted K-2 students and their teachers in three identified elementary schools with comparable demographic index scores. BCPS developed and implemented a Maryland College and Career Ready Standards (MCCRS) -aligned 1:1 personalized and blended learning environment for K-2 students in ELA. Students have 24/7 access to relevant, high quality learning experiences. Curriculum delivered in blended learning environments includes embedded formative assessments, multiple pathways for adaptive instruction, varied multimedia resources, and is fully aligned to the MCCRS. Local funding provided a new teaching and learning position in each pilot school. Grant funding supported:

- professional development modules embedded directly into the new curriculum that address personalized learning, and
- development of a professional learning community that addresses student customized paths in online and blended learning environments.

Carroll County Public Schools

This project included an emphasis on providing digital content and resources to students on a 24/7 basis. The project addressed two activities:

1. Hosted by the vendor, multimedia content included virtual labs, simulations, speeches, primary documents, etc. that align with the Maryland College and Career Ready Standards and other adopted Maryland content standards. These resources are available to students, teachers and parents on a 24/7 basis. Using formative assessment, summative assessment, and daily student performance, this product allows teachers to personalize the assignment of assets for their students. Professional development addressed the navigation and access of the resource, the incorporation of multimedia and reading passages into instruction, and the critical thinking skills needed as digital media is used.
2. Access is provided to Discovery Education Science Techbooks (6 year license) for all teachers and students in grades 3 – 8. These 24/7 Techbooks align with NGSS and provide multiple paths for learning that include video clips, articles, simulations, reflective assessments, and access to primary documents that include news articles, authentic videos, etc. Focused professional development will be provided to all 3-8 science teachers.

A 2 day mini-conference was held for all CCPS leaders and teachers to provide more in-depth professional development for both activities.

Washington County Public Schools
This project, iWrite, continued efforts to meet Washington County's goal to increase student literacy rates for reading/writing through learning experiences with professional development provided collaboratively by the University of Maryland's Writing Project. The project implemented iWrite through a target low-income, high-needs feeder pattern (four schools are involved). Washington County built and supported a vertically aligned culture where thoughtful integration of technology supports standard teaching and learning in a 1:1 environment. The potential that this program offers is a personalization of the student's academic experience that prepares them for career, college, and workforce. Funding was used for professional development, creating a 1:1 learning environment, and developing the infrastructure to support density of coverage.

Kent County Public Schools
This project provides access for all students to inquiry-based learning facilitated by technology. Gizmos (5 year license), simulated math and science activities for all teachers and students, allow for deeper conceptual understanding for both NGSS and Common Core Standards of Mathematics. Discovery Education Techbooks (6 year license) supports the transition process to NGSS in sixth and seventh grades. The 24/7 Techbooks align with NGSS and provide multiple paths for learning that include video clips, articles, simulations, reflective assessments, and access to primary documents that include news articles, authentic videos, etc. Differentiated 1:1 purchases expanded a fifth grade initiative, met the needs of sixth and seventh grade, and expanded the high school 1:1 digital environment. EPortfolios for grades 6–12 are provided through a cloud solution.

SEED School
This project provided a comprehensive digital learning hub for the school that is available during and after the school day. SEED school recognizes the need to increase its focus on digital learning to improve student outcomes, better prepare their students for the changing workforce, and increase student marketability. This digital hub provides in-school and after-school programs, allows for the development of ePortfolios, fosters individual and cooperative decision making skills, and encourages the development of multimedia projects to support service learning projects and community outreach. In addition, the SEED School offers a program that allows students to become Adobe certified. Professional development opportunities addressed personalized learning, the effective integration of technology into instruction, and the creation of a student-centered environment.

2014–2015 Digital Learning Innovation Grant Initiatives

Baltimore County
Baltimore County expanded their Digital Conversion 2.0 Program by.

- increasing the potential for 5th and 6th grade mathematics students in three targeted schools to become more active participants in their learning by using assessment and feedback. Students became more proactive in their education.

- conducting professional development that centered on analyzing student work and the use of formative assessments to provide meaningful feedback in student-centered leaning environments
- developing, purchasing and curating digital resources within the county's Learning Management System
- purchasing Tech books and leasing student mobile devices
- supporting the transition between elementary and middle schools through professional development communities

Garrett County
Last year Garrett County leveraged Digital Learning funds to establish a video conferencing system among all schools as well as provide the digital devices needed for successful implementation of the PARCC assessments. This year the County provided access to digital devices as well as built entrepreneurship opportunities for middle school students using the Digital School of Entrepreneurship model.

Carroll County
Carroll County strengthened learning in secondary mathematics classrooms by creating comprehensive digital learning environments that include interactive, multimedia resources for all students that are supported by the Discovery Education Math Techbook. The project transformed teaching and learning by effectively integrating digital experiences, improving instruction and student performance.

Frederick County
Frederick County transformed traditional 6th grade language arts and science classrooms into comprehensive digital learning environments through Project Based Learning this year. A set of transdisciplinary PBL units was written by teachers and piloted in the classroom. The units included tools that enhance creativity, communication, critical thinking and collaboration among students and teachers. A professional learning program was developed and implemented that trained all 6th grade language arts and science teachers on integrating these units into their classrooms and expand their knowledge, skill and confidence in using technology tools to create comprehensive digital learning environments.

Howard County
Howard County built multiple pathways to world language proficiency by utilizing technology and a personalized learning model. Funds supported the purchase of computer hardware, software licenses and foundational professional learning activities. The goals of this program included:
- increasing the number of students enrolled in world language courses;
- increasing student proficiency in world language;
- increasing the number of students achieving high levels of proficient and taking advanced placement/high level course, and
- increasing the number of students taking less frequently taught languages by utilizing blended and online courses

Somerset County

The Somerset Digital Learning Initiative enhanced instruction and increased College and Career Readiness for secondary students in grades 9–12 by using a 1:1 tablet initiative with built in Learning Management System and Curriculum Management System. Many of Somerset students lack access to the Internet and/or technology at home. Students took their Kunos home already loaded with resources and assignments so that lack of access to the Internet will not impact learning.

Wicomico County
The Wicomico Innovative Learning Digital Environment (WILDE) enhanced middle school learning environments by providing the Discovery Education Social Studies Techbook to students in grade 7 and expanded to grades 6 and 8. Professional development was provided to transform classrooms into digital learning environments; to effectively use technology to enhance the writing process; and, to create transdisciplinary experiences. Middle school teachers built an instructional repository of lessons to include primary documents and other resources for teacher and student use.

Prince Georges
Student Achievement and Teacher Training through Digital Learning built a cloud-based, digital learning environment in which students are active creators and users of digital tools, interactive instruction resources, and browser based devices. Digital Literacy training for students provided support in reading and writing digital text, technical skills, and collaboration. Teachers received training in the alignment of digital resources with State standards; using technology to develop digital formative assessments, and integrating PARCC compliant and browser-based devices into instruction.

Harford County
Harford County's Digital Conversion Initiative increased 10th and 11th grade student achievement in all English II and English III classes through blended learning instruction and individualized learning using Houghton Mifflin Harcourt Collection e-text. Teachers participated in professional development that examined blended-learning, innovative instructional strategies, and activities to address the needs of students, including those with special needs. Every student and teacher received a device, creating a dynamic learning environment by using on-demand content and seamless integration of digital tools.

Exemplars as Reported by the LEAs

Talbot
Beginning this year (2015–2016), Talbot County Public Schools will provide laptops to every student in grades 6–12. Proficiencies in the IT department have allowed the system to extend the life expectancy of its laptops to seven years. The IT staff is dedicated to maintaining its cache of laptops—troubleshooting and repairing as needed. Talbot County's students and teachers use a learning management system called FROG, which not only allows teachers to create and distribute assignments and quizzes and students to submit their work, but it also allows students to master content in a gaming environment.

A new group, 2V2T (the Vertical Vanguard Technology Team) has been established representing every school in Talbot County. Comprised of technology-savvy teachers, 2V2T

will determine the professional development needs of staff and provide the training. In addition, 2V2T will work to identify promising practices that will insure teachers have the skills to reach our digital natives—our students.

Garrett
After being the recipient of two back-to-back Maryland Digital Learning Innovation grants, supplemented by local and federal (RTTT Project 29) funding, Garrett County Schools have made significant progress in establishing the necessary infrastructure to support digital learning schools. This fall we will have a device-to-student ratio of 1:1.6, all schools will have 100 percent high-density wireless coverage, and nearly all classrooms will be equipped with interactive whiteboards. Ninety-one percent of our schools have been determined to have adequate broadband for online assessment and digital learning*. Recent RTTT funding has also provided up-to-date computing devices for all teachers to use for tracking student progress and informing their instruction. Three years ago, Garrett County could only report a device-to-student ratio of 1:5, with zero percent of our schools reporting adequate broadband coverage.

Garrett County's first Digital Learning Innovation project established a cloud-based video conference framework that is capable of connecting students and teachers in our schools virtually with the world. Garrett County's second project created a sixth-grade research project named "Innovative Research 6" (IR6), in which all Garrett County sixth-grade students work collaboratively in teams to create researched-based solutions to real-world problems and communicate their solutions to fellow students. Top teams for both the district's middle schools presented their solution to a "Shark Tank" composed of high school students who had similar experiences in creating research-based solutions and entrepreneurship through their participation in award-winning *FIRST* Robotics programs. Both projects have had significant impact to Garrett County schools, including providing digital devices to support both innovation projects as well as providing sufficient devices for online assessments. The IR6 project also established the beginnings of a "makerspace" in our middle school libraries for students to prototype their solutions.

*According to Educationsuperhighway Criteria (100k/student)

Howard County Public Schools
The Howard County Public School System has launched HCPSS Connect, our new online one-stop platform that will provide easy access to a variety of academic information and classroom instructional tools and offer parents timely, personalized communication relating to their student. One platform found in HCPSS Connect is the Synergy Student Information System, which replaces Aspen as the source for official student records and grades. Another platform, the Canvas Learning System, extends the classroom online for teachers and students to enable more personalized learning while providing a peek into the classroom for parents—all in one easy place.

With HCPSS Connect, we can provide our families, students, and teachers with an improved and consistent user experience, a common digital platform for all schools and grades, and improved communication and collaboration. HCPSS's robust Internet network, coupled with school system-provided devices and student-owned devices, is allowing students more access

to these instructional resources. Teachers will continue to receive professional learning to help transform and adapt their instruction for the new learning management system.

HCPSS Connect takes the school system one step closer to fulfilling the system's strategic plan, Vision 2018, through expanded access to learning through blended instruction, a one-stop portal to streamline communications with parents, optimized operational efficiency and effectiveness, and enhanced technology and digital content for assessing student performance.

Recent Baltimore Sun Article from Thursday, August 20, 2015

Montgomery
During the summer of 2014, Montgomery County Public Schools began a multi-year 21st Century Classroom Initiative. As part of this initiative during the 2014–2015 school year, MCPS rolled out more than 40,000 Chromebooks to grade 3, 5, 6, and high school classrooms. In addition, we began the use of Google Apps for Education to provide anywhere, anytime access to learning resources, thereby extending learning beyond the school day. This summer, we began year 2 of our rollout and will be providing Chromebooks to all grade 4 classrooms and select middle school classrooms.

Coupled with this initiative, MCPS is implementing a new teaching and learning portal that houses digital content, an interactive digital planner for teachers, and a robust assessment platform with item banks from MSDE as well as our MCPS assessments and teacher-created classroom checks for understanding.

Over the past year, we have created 23 hybrid high school courses to be used to support students during the summer. We are working to expand our hybrid course offerings to support students who are unable to attend school due to illness. With increased access to technology and interactive digital resources, MCPS students are engaged in dynamic learning experiences within and beyond the school day. We look forward to an exciting year of new adventures as we continue to expand and enhance our digital learning efforts in MCPS.

St. Mary's
St. Mary's County Public Schools (SMCPS) offers ongoing professional development (PD) opportunities to improve teaching and learning in face-to-face or blended learning environments. Both school and system PD reflects the need to understand the expectations of the Maryland College and Career Readiness standards (MCCRS). This involves the integration of technology into each course in an effort to develop collaboration, creativity, problem solving, and critical thinking among teachers and students. As Maryland moved to the new Teacher-Principal-Evaluation, SMCPS was able to modify its current Teacher Performance Assessment System (TPAS) and Leadership Performance Assessment System (LPAS) to reflect the state changes. We added a domain to TPAS and LPAS incorporating evidence of student learning. Both TPAS and LPAS are electronic systems that provide staff the opportunity to upload evidence of student learning as well as promoting collaborative discussions with administration. TPAS and LPAS support our commitment to students, staff, and stakeholders.

In order to show improvement in student learning, SMCPS has leveraged the use of a variety of resources to provide students and staff with access to technology. SMCPS provides students opportunities to take courses online to accelerate and recover credit (grades 9–12) as well as use digital content to relearn standards (grades 6–12.) SMCPS wants to empower students to manage their learning. In an effort to promote access to our web-based products as well as the SMCPS Google in Education environment, SMCPS has created a wireless environment in all of its buildings. We have shifted the focus from the stagnant computer labs to computers on wheels (COW). As equipment is replaced in buildings, COWs are taking the technology to the students for immediate integration. Through a Department of Defense grant, SMCPS has also integrated the use of iPads into our classrooms. Students are engaged in learning activities that incorporate a focus on exploration, critical thinking, and collaboration. Our libraries and classrooms are interactive places where students and staff responsibly manage their own learning by working independently and with others, to access, manage, integrate, evaluate, create, and communicate information.

Cecil

Cecil County's Summer School program for this year has changed using Florida Virtual online content and our local certified online teachers. For the initial year of this new model, we chose to focus on students needing credit recovery. To accomplish this task, CCPS did the following:

- Content area experts were hired to teach key recovery concepts to students, while mentors were on-site to provide guidance and support.
- Two mentors were placed at each site—one in math and one in English—a key factor in student success.
- Fifty seat licenses were purchased through Florida Virtual Global School (FLVS GS), which opened summer enrollment into a catalog of courses previewed by content coordinators.

This need-based customization of content adheres seamlessly with the county's philosophical framework as well as Maryland's commitment to providing access for all learners. These seats, which are purchased on a yearly subscription basis, will also be used by Home and Hospital students throughout the year.

For four weeks through the summer, students attended for two hours each day, Monday through Wednesday. Online teachers provided differentiated content on a daily basis in order for the students to successfully complete course requirements. This enabled learners to acquire credit needed for grade advancement. In addition to increasing access points through content, CCPS also afforded students options with respect to location of service. For instance, historically there has only been one location for summer school with mathematics as the sole offering. However, this year, three venues were made available with 14 courses offered in a blended format. Consequently, enrollment doubled and credit recovery increased to 80 percent.

This is a promising start for the new model and has allowed us to put plans in place to improve the program for next summer.

Harford

Harford County Public Schools is focused on leading and learning in a digital world through the creation of active and dynamic learning environments using cutting-edge, on-demand content with seamless access to digital tools that will inspire all learners. Access to digital content occurs through the development of digital curriculum in a Learning Management System, itslearning, with a focus on collaboration through Office 365. Choice of appropriate devices through the pilot of a Bring Your Own Technology initiative as well as district provided tablet devices is enabling students to access content. A highlight of digital HARFORD has been the digital conversion of English 10 through funding from the Digital Innovation Grant which provided a digital textbook, mobile devices, digital curriculum, and extensive professional development.

Worcester
Teach. Learn. Connect.

Worcester County Public Schools is excited to launch Teach, Learn, Connect (TLC), a new 1:1 student technology initiative. Technology has the potential to change the way our teachers teach and the way our students learn through customizing and personalizing instruction. All teachers have been issued devices and schools have also received new mobile devices for use in the classroom: iPads for grades K–3 and Chromebooks for grades 4–8. In the fall, laptops will be distributed to all ninth-grade students and every ninth-grade class hereafter for their use in and out of the classroom. Upon graduation, the laptops will belong to the students. Within four years, the goal is for all students to have 1:1 access in their classrooms.

A single sign-on system (TLC powered by Engrade) has been purchased and implemented. It contains a learning management system and an assessment creation tool that will be used to create formative assessments, as well as interoperability with digital assets used by teachers and students. Lead teachers and other school-based staff have been trained to support teachers in the move to digital conversion and blended learning. Professional development to enhance instructional practice with digital tools is ongoing to make the transition to blended learning successful for all teachers and students. A website for teachers has been created to provide ongoing information and "just in time" professional development about the TLC initiative (www.worcestertlc.weebly.com). A website for student and parents is under development and will be completed for the 2015–2016 school year.

Allegany
Allegany County Public Schools (ACPS) has accomplished many technology advancements over the past year with regards to Educator Proficiency and Equitable Access. With the benefit of Race to the Top dollars and local budget commitments, both teachers and students have received collaborative and engaging resources for the classroom. Several of these accomplishments are listed below:

1. **Comprehensive Assessment System** – ACPS purchased a five year contract for Engrade, a McGraw Hill product providing full PARCC like technology enhanced assessments and performance measurement tools. Prior to this system, district benchmarks were developed and administered in paper pencil format. District benchmarks, primarily for the 2015–2016 school year, ELA, Math and Science will be

administered online using Engrade. Paper assessments have been converted to electronic format using the multitude of technology-enhanced tools (drag and drop, multiple select, cloze, equation composition, graphing and plotting, bucket lists). Accommodation tools are also available in an online format. Pre- and post-tests will be administered this year online. It is the intention of ACPS to provide all content areas with these online benchmarks. Along with district benchmarks, teachers are now trained and excited to be using this tool to create their own tests and quizzes mimicking a PARCC like assessment. Performance measurement will be gathered and utilized not only to determine student growth but to inform teacher and principal evaluations.

2. **Discovery Streaming and Discovery Tech Books** – ACPS has committed to and purchased a five-year contract for Discovery Education Streaming. This video distribution system replaced Safari Montage at ACPS. While Safari served us well, Discovery Education provides a constantly updated version of the content as well as an Active Directory synchronized system of authenticating user accounts for teachers and students. In one year, results of use are astounding. Content connections from grades K–12 have demonstrated unprecedented acceptance of the product as well as demands for more professional learning experiences and technology. Within only a few months of implementation, ACPS committed to Discovery Tech Books for Science (K–8). After educators attended preview sessions of the Discovery Tech Books during pilot testing, an astounding response to provide these tools in the classroom resulted. Again, the replacement of the actual textbook with the Tech book affords for active updates to content as it becomes available. The pilot program in middle schools quickly moved to elementary schools as teachers not only embraced this platform but have also shown in only a few months overwhelming use in the classroom.
3. **Collaborative Learning Environments** – With the advent of these extensive online tools, ACPS has not committed to a 1:1 initiative but rather a collaborative-learning atmosphere for our classrooms. Students work in blended-learning groups rotating with material provided and laptops situated in these learning centers (tables) rather than at individual student desks. STEM-based learning with the Sarasota model of Tech Active Classrooms is being introduced using the Fisher and Frey's gradual release of responsibility model of instruction in targeted classrooms. Again, teachers are embracing this method of transformative learning.

Carroll County

Carroll County Public Schools has continued its close partnership with Discovery Education to bring rich and engaging multimedia content to our students and staff via Streaming Plus and the Discovery Education Science and Math Techbooks. These services were made available to our district by the Digital Innovation Grants offered by the state of Maryland. The school year 2014–2015 marked our second year using Discovery Education services, and was the first year of using the Mathematics Techbooks for our middle and high school students. To develop teacher proficiency in the use of the Mathematics Techbook, all of our secondary mathematics teaching staff and content supervisors attended two full days of professional development provided by Discovery Education. Science teachers who completed similar professional development the previous year continued to incorporate their new skills into classroom instruction, resulting in heightened engagement, motivation, and learning by students. Usage statistics for 2014–2015 show that students logged into the

Science Techbook 392,000 times, while teachers logged in 61,000 times. This shows that our science students are interacting with the service far more than our teachers. The Science Techbook service has been recently aligned with the NGSS, and curriculum writers are incorporating many of the Discovery Education assets into our new and existing curriculum.

Teachers and content supervisors also took advantage of additional professional development opportunities such as STEM Curriculum Day, Streamathon, and Techbook LIVE at Discovery Ed headquarters. For the past two school years, Carroll County has held numerous offerings of the Den Ambassador program in order to fully support teachers through community and online activities as they learn how to integrate digital media and technology into their instructional practices. This program has a direct impact on students, colleagues, and administrators as the Den Ambassadors share their learning with others. Last summer we sponsored the CCPS Days of Discovery Conference, a two-day event open to all teachers and administrators that offered sessions not only on the Discovery Education services, but also on Web 2.0 tools, digital citizenship, and interactive technologies available in our classrooms.

This summer we offered a conference entitled Engaging Students with BYOD and Instructional Technology that focused on the instructional use of personal mobile devices in the classroom. The conference proved to be exciting and motivating to the 200 teachers and administrators who attended.
In January 2015, our district rolled out Office 365 and One Drive to all staff and students. Instructional Technology staff has provided hands-on training to over 1,000 staff to orient them to these new tools. In addition, trainings were conducted in the use of OneNote as a vehicle for the development and dissemination of curricula as well as for personal productivity and classroom use.

Queen Anne's (Equitable Access)
Queen Anne's County Public Schools supports student learning by providing equitable access to the following:

- A 1:1 Chromebook initiative was initiated in grades 6–8, as highlighted in a Digital Conversion Video.
- All teachers in the county received a HP Elite Book.
- We moved the laptop carts in the middle schools to elementary and high schools due to Chromebook distribution in middle schools.
- All middle schools are demonstrating blended learning.
- We are moving forward with online testing through the Unify platform.
- Every content supervisor is currently implementing walk-throughs in the schools and providing immediate feedback.
- Forty QAC Employees just participated in "Google Boot Camp," a two-day training on Google Apps and implementing into the classroom.
- We have implemented Discovery Education Streaming in Schools—this will help to engage students with video and online teaching.

Dorchester
Dorchester County Public Schools Digital Learning

DCPS has partnered with Discovery Education (DE) to upgrade to Discovery Education Streaming Plus Digital Media for a multi-year contract. All teachers and students in grades K–12 will have access to CCSS-aligned digital content, model lessons, and digital learning tools such as board builder and quiz builder. A roll-out of Discovery Tech Books in Algebra I and middle school science classes will occur in conjunction with the Streaming Plus upgrade. These resources will allow for students to be more self-directed learners and to work with highly-engaging and rigorous material.

Through our partnership with Discovery Education, selected teachers from each school will be part of the Digital Leadership Corps (DLC). These teachers, who will apply to be part of the DLC, will receive intensive training from Discovery Education professional development consultants. Each training session will be followed by job-embedded coaching by the DE consultant. These teachers will become trainers in their schools to build capacity among the other staff members. The first cohort of DLC teachers will begin in the fall of 2015 and will be trained over a four-year period.

Calvert
Calvert County Public Schools (CCPS) envisions a school system where learners have access to meaningful, engaging, and individualized learning environments and opportunities 24 hours a day, 7 days a week. As part of the mission to create Future Ready schools, teachers will utilize digital learning tools and resources and serve as facilitators of students' learning. Students will achieve their fullest potential through access to a robust wireless network, use a variety of digital learning mediums and devices, rich instructional experiences driven by their skills and interests, and support for learning that extends beyond the classroom.

Calvert County Public Schools is proud and pleased to be a part of the Future Ready Schools Initiative, which is a joint effort between the Alliance for Excellent Education, the U.S. Department of Education, and many other partner organizations.

As part of the Future Ready effort, Calvert County participated in a comprehensive self-assessment exercise to determine where strengths and needs in digital learning reside within the district, and the district's superintendent of schools signed the Future Ready pledge to work with stakeholders in the process.

During June, a team of six system leaders—including our superintendent, Dr. Daniel Curry—attended a two-day Future Ready Summit where they worked to create a vision, mission, and a plan of implementation for creating schools where students are not only college and career ready, but are also "future ready."

Work has continued this summer and will continue into the 2015–2016 school year and beyond as the Future Ready team continues to implement the vision, mission, goals, and associated strategies in order to guide student success in Calvert County.

Caroline County Public Schools
Caroline County Public Schools has recently created a new position that will speak to the goals outlined in the request. The Academic Technology Integration Coach (ATIC) will

facilitate the professional development for instructional technology as well as guide the school system in its plan to fully equip every classroom with all of the proper technologies for that curriculum (CCPS definition of 1:1).

Educator proficiency will be overseen by the ATIC in order to either personally provide targeted training or coordinate training by other departments to ensure staff is fully prepared to effectively integrate all of the academic technology at their disposal.

Equitable access will be addressed not only by the fully equipped classroom but by the addition of learning environments such as Google Apps for Education (Google Classroom).

Baltimore County

Students and Teachers Accessing Tomorrow (S.T.A.T.)

Baltimore County Public Schools Blueprint 2.0 articulates a bold theory of action:
To equip every student with the critical 21st century skills needed to be globally competitive, BCPS must ensure that every school has an equitable, effective digital learning environment.

Students and Teachers Accessing Tomorrow (S.T.A.T.) is BCPS' innovative plan to transform all BCPS classrooms into 21st century learning environments through the implementation of individual devices for all students and teachers as well as access to personalized, interactive digital curriculum. In his 2013 State of the School address, Superintendent Dr. Dance explained, "Putting a digital device in our students' hands not only opens up endless possibilities of instructional advancement…it also levels the playing field—which is the role of public schools and the very idea of America."

Key components of S.T.A.T. include the following:

- Eight Conversions: To ensure all schools have an equitable, effective digital learning environment, eight conversions needed to occur simultaneously. The eight conversions of curriculum, instruction, assessment, organizational development, infrastructure, policy, budget, and communications reflect how all areas of the organization are moving together toward this common goal.
- Curriculum First: While technology is a cornerstone of S.T.A.T., the program is, at its core, about transforming teaching and learning. Therefore, BCPS puts curriculum first with our curriculum and instruction work guided by a Teaching and Learning Framework that integrates BCPS's vision for curriculum, the Danielson framework, and the P21 skills. BCPS has a five-year plan to revise all district curricula to match the new vision for customized and personalized learning. Drawing on best practices of backward design while also taking advantage of the affordances of technology, curriculum revision focuses on alignment to standards, the infusion of P21 skills, and the inclusion of digital options for texts, materials, activities, and assessments. Curriculum guides include a continually evolving library of professional learning resources directly embedded in the course materials.
- **BCPS One:** BCPS One is a fully-integrated learning management system and grade book. BCPS One is the curriculum platform wherein all curriculum and assessments are developed. It contains a repository with content from such providers as Discovery Education, National Geographic, and BrainPOP. BCPS One is a web-based platform, so

students can access lessons and assignments from anywhere they have an Internet connection—even from their smart phone. Through BCPS One, educators are able to communicate classroom-level information with colleagues, leadership, parents, and students.

- Lighthouse Schools: The 2014 MD Digital Learning Innovation Grant was the springboard for the BCPS Lighthouse Schools, 10 schools that are piloting the model for 1:1 interactive and blended instruction. These Lighthouse Schools are the first in the system to receive individual learning devices for students, implement one-to-one personalized and blended learning, and create an innovative, comprehensive digital-learning culture. Further, these Lighthouse Schools will become model demonstration sites for the scaled rollout of S.T.A.T. In September, these schools equipped every student in grades 1–3 with an HP Revolve 810. This device was selected through a thoughtful process of field testing and feedback from curriculum and instruction staff, teachers, and students.
- Professional Learning: The Office of Organizational Development, in collaboration with the Division of Curriculum Instruction, maintains and implements an ongoing organizational development plan that is driven by student evidence and considers both system needs and individual needs in delivery of professional learning. In 2014, the plan included a three-day intensive professional learning institute for Lighthouse Schools. More than 300 teachers attended the institute, with keynote speakers and breakout sessions focused on creating learner-centered environments, using digital content and tools, and using BCPS One to support instruction. Job-embedded professional learning is provided in every BCPS school through S.T.A.T. teachers, school-based instructional leaders who support the teachers and administrative team by providing a continuum of professional development experiences during the instructional transformation.

Anne Arundel County

In order to ensure that every student meets or exceeds standards as achievement gaps are eliminated, AACPS provides support and opportunities for teachers and students through the use of a variety of technology resources. Teachers have an online e-Curriculum K-12 which is accessed through Blackboard. This allows teachers to have their curriculum in real time with current updates. It also provides a platform for collaborative engagement as teachers can easily communicate, and share feedback on the use of technology with students.

AACPS has 57,500 computer devices which include 15,410 Chromebooks and iPads. These technologies provide students with daily access to resources such as Discovery Education, Online Databases, and AACPS Technology Connections that align to the Common Core State Standards.

Teachers are provided ongoing professional development on the best uses of this technology and the integration of technology through after-school workshops, in-school PD, webinars, targeted Magnet trainings, Blackboard support sites. Additionally, all AACPS schools have the support of a designed, onsite eCoach. The eCoach provides additional onsite instruction and technical assistance and coaching to their schools. Feedback forums are further set up on Blackboard for teachers and central office staff to connect. The Office of Instructional Technology provides training that aligns to the technology initiatives that support AACPS goals and Strategic Plan.

Recognizing the tenets of 21st Century learning, AACPS has adopted customized learning options. This includes online and distance learning course availability. This extends educational opportunities for students that may not be available at their home school. We have increased our presence in distance learning in both the high and middle schools and are beginning to pilot courses in the science and arts areas in addition to our distance learning math and language courses. At this time, in fact, AACPS is piloting a virtual learning classroom at one of our high schools for online and credit recovery with classroom and teacher support.

Queen Anne's County

Queen Anne's County is continuing their efforts to strive for all students to have equitable access to technology by the year 2020. The 1:1 device initiative enhances learning and transforms teaching and learning through technology. Beginning this 2015-2016 year, we will provide laptop computers to students in grades 9-12. Students in grades 5-8 have been provided Chromebooks and we continue to provide support from our IT department. The IT department provides tremendous support to over 4,800 devices and most importantly wireless in all schools in the district which allows students more access to instructional resources. We continue to use Discovery Education streaming, Techbooks and Agile Minds in many of our schools.

QAC has begun the use of Google Apps for Education to provide anytime access to learning resources. A select group of teachers, supervisors and support staff attended a 2 day training and many of our teachers have implementing it into their everyday instruction. In addition, QAC is rolling out many of their local assessments to an online platform through Unify, located in Performance Matters. With students having sufficient devices it was time to move forward with the online assessments. QAC provided a 2 day technology training rolling in to the digital conversion to over 800 staff members to support staff to use digital resources and make the transition to blended learning. In addition to the professional development, teachers are also provided a 2 in 1 computer/tablet to make the transition effective in the classroom.

Attachment 1: The number of students and percent of the total tested population taking the PARCC exams in the online versus paper-based format by LEA, by mode, and by test.

PBA by County:

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
ALLEGANY COUNTY	Algebra I	0	620	620	0%	100%
ALLEGANY COUNTY	Algebra II	0	422	422	0%	100%
ALLEGANY COUNTY	Grade 10 ELA/Literacy	0	579	579	0%	100%
ALLEGANY COUNTY	Grade 3 ELA/Literacy	0	623	623	0%	100%
ALLEGANY COUNTY	Grade 3 Mathematics	0	620	620	0%	100%
ALLEGANY COUNTY	Grade 4 ELA/Literacy	0	598	598	0%	100%
ALLEGANY COUNTY	Grade 4 Mathematics	0	599	599	0%	100%
ALLEGANY COUNTY	Grade 5 ELA/Literacy	0	662	662	0%	100%
ALLEGANY COUNTY	Grade 5 Mathematics	0	661	661	0%	100%
ALLEGANY COUNTY	Grade 6 ELA/Literacy	0	610	610	0%	100%
ALLEGANY COUNTY	Grade 6 Mathematics	0	609	609	0%	100%
ALLEGANY COUNTY	Grade 7 ELA/Literacy	0	611	611	0%	100%
ALLEGANY COUNTY	Grade 7 Mathematics	0	605	605	0%	100%
ALLEGANY COUNTY	Grade 8 ELA/Literacy	0	608	608	0%	100%
ALLEGANY COUNTY	Grade 8 Mathematics	0	378	378	0%	100%
	Totals	0	8,805	8,805	0%	100%
ANNE ARUNDEL COUNTY	Algebra I	2,120	3,381	5,501	39%	61%
ANNE ARUNDEL COUNTY	Algebra II	54	4,813	4,867	1%	99%
ANNE ARUNDEL COUNTY	Grade 10 ELA/Literacy	0	5,647	5,647	0%	100%
ANNE ARUNDEL COUNTY	Grade 3 ELA/Literacy	5,992	82	6,074	99%	1%
ANNE ARUNDEL COUNTY	Grade 3 Mathematics	5,584	500	6,084	92%	8%
ANNE ARUNDEL COUNTY	Grade 4 ELA/Literacy	13	5,934	5,947	0%	100%
ANNE ARUNDEL COUNTY	Grade 4 Mathematics	13	5,916	5,929	0%	100%
ANNE ARUNDEL COUNTY	Grade 5 ELA/Literacy	4	5,953	5,957	0%	100%
ANNE ARUNDEL COUNTY	Grade 5 Mathematics	3	5,978	5,981	0%	100%
ANNE ARUNDEL COUNTY	Grade 6 ELA/Literacy	8	5,883	5,891	0%	100%
ANNE ARUNDEL COUNTY	Grade 6 Mathematics	8	5,811	5,819	0%	100%
ANNE ARUNDEL COUNTY	Grade 7 ELA/Literacy	2	5,763	5,765	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
ANNE ARUNDEL COUNTY	Grade 7 Mathematics	1	5,722	5,723	0%	100%
ANNE ARUNDEL COUNTY	Grade 8 ELA/Literacy	5,250	251	5,501	95%	5%
ANNE ARUNDEL COUNTY	Grade 8 Mathematics	2,937	457	3,394	87%	13%
	Totals	21,989	62,091	84,080	26%	74%
BALTIMORE COUNTY	Algebra I	2,213	6,430	8,643	26%	74%
BALTIMORE COUNTY	Algebra II	277	3,885	4,162	7%	93%
BALTIMORE COUNTY	Grade 10 ELA/Literacy	1,327	6,290	7,617	17%	83%
BALTIMORE COUNTY	Grade 3 ELA/Literacy	5,512	3,039	8,551	0%	0%
BALTIMORE COUNTY	Grade 3 Mathematics	4,768	3,823	8,591	55%	45%
BALTIMORE COUNTY	Grade 4 ELA/Literacy	5,487	2,961	8,448	65%	35%
BALTIMORE COUNTY	Grade 4 Mathematics	4,755	3,758	8,513	56%	44%
BALTIMORE COUNTY	Grade 5 ELA/Literacy	5,211	2,970	8,181	64%	36%
BALTIMORE COUNTY	Grade 5 Mathematics	4,493	3,730	8,223	55%	45%
BALTIMORE COUNTY	Grade 6 ELA/Literacy	6,062	1,852	7,914	77%	23%
BALTIMORE COUNTY	Grade 6 Mathematics	2,821	5,139	7,960	35%	65%
BALTIMORE COUNTY	Grade 7 ELA/Literacy	5,881	1,767	7,648	77%	23%
BALTIMORE COUNTY	Grade 7 Mathematics	2,000	3,961	5,961	34%	66%
BALTIMORE COUNTY	Grade 8 ELA/Literacy	5,737	1,794	7,531	76%	24%
BALTIMORE COUNTY	Grade 8 Mathematics	1,274	2,665	3,939	32%	68%
	Totals	57,818	54,064	111,882	52%	48%
CALVERT COUNTY	Algebra I	4	1,362	1,366	0%	100%
CALVERT COUNTY	Algebra II	0	1,399	1,399	0%	100%
CALVERT COUNTY	Grade 10 ELA/Literacy	984	280	1,264	78%	22%
CALVERT COUNTY	Grade 3 ELA/Literacy	0	1,097	1,097	0%	100%
CALVERT COUNTY	Grade 3 Mathematics	0	1,085	1,085	0%	100%
CALVERT COUNTY	Grade 4 ELA/Literacy	1	1,115	1,116	0%	100%
CALVERT COUNTY	Grade 4 Mathematics	1	1,114	1,115	0%	100%
CALVERT COUNTY	Grade 5 ELA/Literacy	0	1,148	1,148	0%	100%
CALVERT COUNTY	Grade 5 Mathematics	0	1,144	1,144	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
CALVERT COUNTY	Grade 6 ELA/Literacy	483	786	1,269	38%	62%
CALVERT COUNTY	Grade 6 Mathematics	0	1,268	1,268	0%	100%
CALVERT COUNTY	Grade 7 ELA/Literacy	495	772	1,267	39%	61%
CALVERT COUNTY	Grade 7 Mathematics	0	884	884	0%	100%
CALVERT COUNTY	Grade 8 ELA/Literacy	455	783	1,238	37%	63%
CALVERT COUNTY	Grade 8 Mathematics	0	588	588	0%	100%
	Totals	2,423	14,825	17,248	14%	86%
CAROLINE COUNTY	Algebra I	0	257	257	0%	100%
CAROLINE COUNTY	Algebra II	0	163	163	0%	100%
CAROLINE COUNTY	Grade 10 ELA/Literacy	0	179	179	0%	100%
CAROLINE COUNTY	Grade 3 ELA/Literacy	0	433	433	0%	100%
CAROLINE COUNTY	Grade 3 Mathematics	0	435	435	0%	100%
CAROLINE COUNTY	Grade 4 ELA/Literacy	0	420	420	0%	100%
CAROLINE COUNTY	Grade 4 Mathematics	0	422	422	0%	100%
CAROLINE COUNTY	Grade 5 ELA/Literacy	0	405	405	0%	100%
CAROLINE COUNTY	Grade 5 Mathematics	0	414	414	0%	100%
CAROLINE COUNTY	Grade 6 ELA/Literacy	0	401	401	0%	100%
CAROLINE COUNTY	Grade 6 Mathematics	0	392	392	0%	100%
CAROLINE COUNTY	Grade 7 ELA/Literacy	0	437	437	0%	100%
CAROLINE COUNTY	Grade 7 Mathematics	0	427	427	0%	100%
CAROLINE COUNTY	Grade 8 ELA/Literacy	0	402	402	0%	100%
CAROLINE COUNTY	Grade 8 Mathematics	0	328	328	0%	100%
	Totals	0	5,515	5,515	0%	100%
CARROLL COUNTY	Algebra I	262	1,223	1,485	18%	82%
CARROLL COUNTY	Algebra II	1	1,041	1,042	0%	100%
CARROLL COUNTY	Grade 10 ELA/Literacy	206	1,277	1,483	14%	86%
CARROLL COUNTY	Grade 3 ELA/Literacy	1	1,822	1,823	0%	100%
CARROLL COUNTY	Grade 3 Mathematics	1	1,822	1,823	0%	100%
CARROLL COUNTY	Grade 4 ELA/Literacy	0	1,875	1,875	0%	100%
CARROLL COUNTY	Grade 4 Mathematics	0	1,873	1,873	0%	100%
CARROLL COUNTY	Grade 5 ELA/Literacy	0	1,952	1,952	0%	100%
CARROLL COUNTY	Grade 5 Mathematics	0	1,953	1,953	0%	100%
CARROLL COUNTY	Grade 6 ELA/Literacy	1	1,989	1,990	0%	100%
CARROLL COUNTY	Grade 6 Mathematics	1	1,990	1,991	0%	100%
CARROLL COUNTY	Grade 7 ELA/Literacy	2	2,051	2,053	0%	100%
CARROLL COUNTY	Grade 7 Mathematics	2	2,037	2,039	0%	100%
CARROLL COUNTY	Grade 8 ELA/Literacy	2	1,945	1,947	0%	100%
CARROLL COUNTY	Grade 8 Mathematics	1	1,583	1,584	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
	Totals	480	26,433	26,913	2%	98%
CECIL COUNTY	Algebra I	0	755	755	0%	100%
CECIL COUNTY	Algebra II	0	467	467	0%	100%
CECIL COUNTY	Grade 10 ELA/Literacy	0	729	729	0%	100%
CECIL COUNTY	Grade 3 ELA/Literacy	1	1,130	1,131	0%	100%
CECIL COUNTY	Grade 3 Mathematics	1	1,135	1,136	0%	100%
CECIL COUNTY	Grade 4 ELA/Literacy	0	1,151	1,151	0%	100%
CECIL COUNTY	Grade 4 Mathematics	0	1,148	1,148	0%	100%
CECIL COUNTY	Grade 5 ELA/Literacy	0	1,104	1,104	0%	100%
CECIL COUNTY	Grade 5 Mathematics	0	1,089	1,089	0%	100%
CECIL COUNTY	Grade 6 ELA/Literacy	0	1,120	1,120	0%	100%
CECIL COUNTY	Grade 6 Mathematics	0	1,125	1,125	0%	100%
CECIL COUNTY	Grade 7 ELA/Literacy	0	1,176	1,176	0%	100%
CECIL COUNTY	Grade 7 Mathematics	0	1,179	1,179	0%	100%
CECIL COUNTY	Grade 8 ELA/Literacy	0	1,125	1,125	0%	100%
CECIL COUNTY	Grade 8 Mathematics	0	793	793	0%	100%
	Totals	2	15,226	15,228	0%	100%
CHARLES COUNTY	Algebra I	13	1,809	1,822	1%	99%
CHARLES COUNTY	Algebra II	1	1,000	1,001	0%	100%
CHARLES COUNTY	Grade 10 ELA/Literacy	7	2,046	2,053	0%	100%
CHARLES COUNTY	Grade 3 ELA/Literacy	5	1,857	1,862	0%	100%
CHARLES COUNTY	Grade 3 Mathematics	5	1,852	1,857	0%	100%
CHARLES COUNTY	Grade 4 ELA/Literacy	9	1,859	1,868	0%	100%
CHARLES COUNTY	Grade 4 Mathematics	8	1,853	1,861	0%	100%
CHARLES COUNTY	Grade 5 ELA/Literacy	8	1,877	1,885	0%	100%
CHARLES COUNTY	Grade 5 Mathematics	8	1,852	1,860	0%	100%
CHARLES COUNTY	Grade 6 ELA/Literacy	3	1,928	1,931	0%	100%
CHARLES COUNTY	Grade 6 Mathematics	2	1,903	1,905	0%	100%
CHARLES COUNTY	Grade 7 ELA/Literacy	3	1,971	1,974	0%	100%
CHARLES COUNTY	Grade 7 Mathematics	3	1,956	1,959	0%	100%
CHARLES COUNTY	Grade 8 ELA/Literacy	4	1,895	1,899	0%	100%
CHARLES COUNTY	Grade 8 Mathematics	3	1,241	1,244	0%	100%
	Totals	82	26,899	26,981	0%	100%
DORCHESTER COUNTY	Algebra I	0	465	465	0%	100%
DORCHESTER COUNTY	Algebra II	0	37	37	0%	100%
DORCHESTER COUNTY	Grade 10 ELA/Literacy	0	294	294	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
DORCHESTER COUNTY	Grade 3 ELA/Literacy	0	386	386	0%	100%
DORCHESTER COUNTY	Grade 3 Mathematics	0	386	386	0%	100%
DORCHESTER COUNTY	Grade 4 ELA/Literacy	1	318	319	0%	100%
DORCHESTER COUNTY	Grade 4 Mathematics	1	322	323	0%	100%
DORCHESTER COUNTY	Grade 5 ELA/Literacy	1	365	366	0%	100%
DORCHESTER COUNTY	Grade 5 Mathematics	1	376	377	0%	100%
DORCHESTER COUNTY	Grade 6 ELA/Literacy	1	334	335	0%	100%
DORCHESTER COUNTY	Grade 6 Mathematics	1	345	346	0%	100%
DORCHESTER COUNTY	Grade 7 ELA/Literacy	0	296	296	0%	100%
DORCHESTER COUNTY	Grade 7 Mathematics	0	294	294	0%	100%
DORCHESTER COUNTY	Grade 8 ELA/Literacy	1	337	338	0%	100%
DORCHESTER COUNTY	Grade 8 Mathematics	1	251	252	0%	100%
	Totals	8	4,806	4,814	0%	100%
FREDERICK COUNTY	Algebra I	3	2,919	2,922	0%	100%
FREDERICK COUNTY	Algebra II	1	876	877	0%	100%
FREDERICK COUNTY	Grade 10 ELA/Literacy	3	1,578	1,581	0%	100%
FREDERICK COUNTY	Grade 3 ELA/Literacy	3,035	37	3,072	99%	1%
FREDERICK COUNTY	Grade 3 Mathematics	3,001	87	3,088	97%	3%
FREDERICK COUNTY	Grade 4 ELA/Literacy	3	3,002	3,005	0%	100%
FREDERICK COUNTY	Grade 4 Mathematics	2	3,022	3,024	0%	100%
FREDERICK COUNTY	Grade 5 ELA/Literacy	4	2,950	2,954	0%	100%
FREDERICK COUNTY	Grade 5 Mathematics	4	2,949	2,953	0%	100%
FREDERICK COUNTY	Grade 6 ELA/Literacy	2,969	6	2,975	100%	0%
FREDERICK COUNTY	Grade 6 Mathematics	2,977	10	2,987	100%	0%
FREDERICK COUNTY	Grade 7 ELA/Literacy	5	2,940	2,945	0%	100%
FREDERICK COUNTY	Grade 7 Mathematics	5	2,949	2,954	0%	100%
FREDERICK COUNTY	Grade 8 ELA/Literacy	8	2,984	2,992	0%	100%
FREDERICK COUNTY	Grade 8 Mathematics	7	2,368	2,375	0%	100%
	Totals	12,027	28,677	40,704	30%	70%
GARRETT COUNTY	Algebra I	0	285	285	0%	100%
GARRETT COUNTY	Algebra II	1	114	115	1%	99%
GARRETT COUNTY	Grade 10 ELA/Literacy	0	144	144	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
GARRETT COUNTY	Grade 3 ELA/Literacy	0	277	277	0%	100%
GARRETT COUNTY	Grade 3 Mathematics	0	277	277	0%	100%
GARRETT COUNTY	Grade 4 ELA/Literacy	0	292	292	0%	100%
GARRETT COUNTY	Grade 4 Mathematics	0	292	292	0%	100%
GARRETT COUNTY	Grade 5 ELA/Literacy	0	302	302	0%	100%
GARRETT COUNTY	Grade 5 Mathematics	0	302	302	0%	100%
GARRETT COUNTY	Grade 6 ELA/Literacy	0	288	288	0%	100%
GARRETT COUNTY	Grade 6 Mathematics	0	287	287	0%	100%
GARRETT COUNTY	Grade 7 ELA/Literacy	2	264	266	1%	99%
GARRETT COUNTY	Grade 7 Mathematics	2	263	265	1%	99%
GARRETT COUNTY	Grade 8 ELA/Literacy	0	269	269	0%	100%
GARRETT COUNTY	Grade 8 Mathematics	0	195	195	0%	100%
	Totals	5	3,851	3,856	0%	100%
HARFORD COUNTY	Algebra I	2,945	0	2,945	100%	0%
HARFORD COUNTY	Algebra II	2,518	0	2,518	100%	0%
HARFORD COUNTY	Grade 10 ELA/Literacy	2,736	0	2,736	100%	0%
HARFORD COUNTY	Grade 3 ELA/Literacy	2,824	0	2,824	100%	0%
HARFORD COUNTY	Grade 3 Mathematics	2,830	0	2,830	100%	0%
HARFORD COUNTY	Grade 4 ELA/Literacy	2,784	0	2,784	100%	0%
HARFORD COUNTY	Grade 4 Mathematics	2,789	0	2,789	100%	0%
HARFORD COUNTY	Grade 5 ELA/Literacy	2,851	0	2,851	100%	0%
HARFORD COUNTY	Grade 5 Mathematics	2,855	0	2,855	100%	0%
HARFORD COUNTY	Grade 6 ELA/Literacy	2,785	0	2,785	100%	0%
HARFORD COUNTY	Grade 6 Mathematics	2,787	0	2,787	100%	0%
HARFORD COUNTY	Grade 7 ELA/Literacy	2,897	0	2,897	100%	0%
HARFORD COUNTY	Grade 7 Mathematics	2,151	0	2,151	100%	0%
HARFORD COUNTY	Grade 8 ELA/Literacy	2,665	0	2,665	100%	0%
HARFORD COUNTY	Grade 8 Mathematics	1,876	0	1,876	100%	0%
HARFORD COUNTY	Grade 9 ELA/Literacy	0	0	0	0%	0%
	Totals	40,293	0	40,293	100%	0%
HOWARD COUNTY	Algebra I	11	4,533	4,544	0%	100%
HOWARD COUNTY	Algebra II	11	3,984	3,995	0%	100%
HOWARD COUNTY	Grade 10 ELA/Literacy	11	3,970	3,981	0%	100%
HOWARD COUNTY	Grade 3 ELA/Literacy	8	3,998	4,006	0%	100%
HOWARD COUNTY	Grade 3 Mathematics	8	4,013	4,021	0%	100%
HOWARD COUNTY	Grade 4 ELA/Literacy	12	3,984	3,996	0%	100%
HOWARD COUNTY	Grade 4 Mathematics	12	3,985	3,997	0%	100%
HOWARD COUNTY	Grade 5 ELA/Literacy	11	4,122	4,133	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
HOWARD COUNTY	Grade 5 Mathematics	11	4,121	4,132	0%	100%
HOWARD COUNTY	Grade 6 ELA/Literacy	4	4,164	4,168	0%	100%
HOWARD COUNTY	Grade 6 Mathematics	4	4,144	4,148	0%	100%
HOWARD COUNTY	Grade 7 ELA/Literacy	8	4,082	4,090	0%	100%
HOWARD COUNTY	Grade 7 Mathematics	8	2,817	2,825	0%	100%
HOWARD COUNTY	Grade 8 ELA/Literacy	11	3,969	3,980	0%	100%
HOWARD COUNTY	Grade 8 Mathematics	11	2,558	2,569	0%	100%
	Totals	141	58,444	58,585	0%	100%
KENT COUNTY	Algebra I	0	141	141	0%	100%
KENT COUNTY	Algebra II	0	70	70	0%	100%
KENT COUNTY	Grade 10 ELA/Literacy	0	144	144	0%	100%
KENT COUNTY	Grade 3 ELA/Literacy	0	174	174	0%	100%
KENT COUNTY	Grade 3 Mathematics	0	174	174	0%	100%
KENT COUNTY	Grade 4 ELA/Literacy	0	141	141	0%	100%
KENT COUNTY	Grade 4 Mathematics	0	139	139	0%	100%
KENT COUNTY	Grade 5 ELA/Literacy	1	150	151	1%	99%
KENT COUNTY	Grade 5 Mathematics	1	147	148	1%	99%
KENT COUNTY	Grade 6 ELA/Literacy	0	146	146	0%	100%
KENT COUNTY	Grade 6 Mathematics	0	146	146	0%	100%
KENT COUNTY	Grade 7 ELA/Literacy	0	144	144	0%	100%
KENT COUNTY	Grade 7 Mathematics	0	144	144	0%	100%
KENT COUNTY	Grade 8 ELA/Literacy	0	140	140	0%	100%
KENT COUNTY	Grade 8 Mathematics	0	106	106	0%	100%
	Totals	2	2,106	2,108	0%	100%
MONTGOMERY COUNTY	Algebra I	6	11,349	11,355	0%	100%
MONTGOMERY COUNTY	Algebra II	1	9,061	9,062	0%	100%
MONTGOMERY COUNTY	Grade 10 ELA/Literacy	2	10,370	10,372	0%	100%
MONTGOMERY COUNTY	Grade 3 ELA/Literacy	17	11,829	11,846	0%	100%
MONTGOMERY COUNTY	Grade 3 Mathematics	17	11,939	11,956	0%	100%
MONTGOMERY COUNTY	Grade 4 ELA/Literacy	8	11,521	11,529	0%	100%
MONTGOMERY COUNTY	Grade 4 Mathematics	8	11,666	11,674	0%	100%
MONTGOMERY COUNTY	Grade 5 ELA/Literacy	11	11,587	11,598	0%	100%
MONTGOMERY COUNTY	Grade 5 Mathematics	11	11,641	11,652	0%	100%
MONTGOMERY COUNTY	Grade 6 ELA/Literacy	8	11,183	11,191	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
MONTGOMERY COUNTY	Grade 6 Mathematics	8	11,219	11,227	0%	100%
MONTGOMERY COUNTY	Grade 7 ELA/Literacy	7	11,008	11,015	0%	100%
MONTGOMERY COUNTY	Grade 7 Mathematics	6	8,841	8,847	0%	100%
MONTGOMERY COUNTY	Grade 8 ELA/Literacy	14	10,804	10,818	0%	100%
MONTGOMERY COUNTY	Grade 8 Mathematics	7	6,286	6,293	0%	100%
	Totals	131	160,304	160,435	0%	100%
PRINCE GEORGES COUNTY	Algebra I	0	9,493	9,493	0%	100%
PRINCE GEORGES COUNTY	Algebra II	0	5,562	5,562	0%	100%
PRINCE GEORGES COUNTY	Grade 10 ELA/Literacy	0	7,587	7,587	0%	100%
PRINCE GEORGES COUNTY	Grade 3 ELA/Literacy	6	9,644	9,650	0%	100%
PRINCE GEORGES COUNTY	Grade 3 Mathematics	6	9,687	9,693	0%	100%
PRINCE GEORGES COUNTY	Grade 4 ELA/Literacy	7	9,307	9,314	0%	100%
PRINCE GEORGES COUNTY	Grade 4 Mathematics	7	9,329	9,336	0%	100%
PRINCE GEORGES COUNTY	Grade 5 ELA/Literacy	2	9,188	9,190	0%	100%
PRINCE GEORGES COUNTY	Grade 5 Mathematics	2	9,278	9,280	0%	100%
PRINCE GEORGES COUNTY	Grade 6 ELA/Literacy	3	8,838	8,841	0%	100%
PRINCE GEORGES COUNTY	Grade 6 Mathematics	3	8,743	8,746	0%	100%
PRINCE GEORGES COUNTY	Grade 7 ELA/Literacy	2	8,759	8,761	0%	100%
PRINCE GEORGES COUNTY	Grade 7 Mathematics	2	8,612	8,614	0%	100%
PRINCE GEORGES COUNTY	Grade 8 ELA/Literacy	1	8,468	8,469	0%	100%
PRINCE GEORGES COUNTY	Grade 8 Mathematics	1	7,652	7,653	0%	100%
	Totals	42	130,147	130,189	0%	100%
QUEEN ANNES COUNTY	Algebra I	1	521	522	0%	100%
QUEEN ANNES COUNTY	Algebra II	0	381	381	0%	100%
QUEEN ANNES COUNTY	Grade 10 ELA/Literacy	1	320	321	0%	100%
QUEEN ANNES COUNTY	Grade 3 ELA/Literacy	2	588	590	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
QUEEN ANNES COUNTY	Grade 3 Mathematics	0	587	587	0%	100%
QUEEN ANNES COUNTY	Grade 4 ELA/Literacy	1	582	583	0%	100%
QUEEN ANNES COUNTY	Grade 4 Mathematics	0	577	577	0%	100%
QUEEN ANNES COUNTY	Grade 5 ELA/Literacy	0	597	597	0%	100%
QUEEN ANNES COUNTY	Grade 5 Mathematics	0	592	592	0%	100%
QUEEN ANNES COUNTY	Grade 6 ELA/Literacy	6	575	581	1%	99%
QUEEN ANNES COUNTY	Grade 6 Mathematics	2	568	570	0%	100%
QUEEN ANNES COUNTY	Grade 7 ELA/Literacy	1	643	644	0%	100%
QUEEN ANNES COUNTY	Grade 7 Mathematics	1	630	631	0%	100%
QUEEN ANNES COUNTY	Grade 8 ELA/Literacy	0	551	551	0%	100%
QUEEN ANNES COUNTY	Grade 8 Mathematics	0	359	359	0%	100%
	Totals	15	8,071	8,086	0%	100%
ST MARYS COUNTY	Algebra I	0	913	913	0%	100%
ST MARYS COUNTY	Algebra II	0	892	892	0%	100%
ST MARYS COUNTY	Grade 10 ELA/Literacy	0	1,204	1,204	0%	100%
ST MARYS COUNTY	Grade 3 ELA/Literacy	1	1,320	1,321	0%	100%
ST MARYS COUNTY	Grade 3 Mathematics	1	1,323	1,324	0%	100%
ST MARYS COUNTY	Grade 4 ELA/Literacy	0	1,376	1,376	0%	100%
ST MARYS COUNTY	Grade 4 Mathematics	0	1,365	1,365	0%	100%
ST MARYS COUNTY	Grade 5 ELA/Literacy	1	1,278	1,279	0%	100%
ST MARYS COUNTY	Grade 5 Mathematics	1	1,279	1,280	0%	100%
ST MARYS COUNTY	Grade 6 ELA/Literacy	0	1,286	1,286	0%	100%
ST MARYS COUNTY	Grade 6 Mathematics	0	1,288	1,288	0%	100%
ST MARYS COUNTY	Grade 7 ELA/Literacy	0	1,279	1,279	0%	100%
ST MARYS COUNTY	Grade 7 Mathematics	0	1,231	1,231	0%	100%
ST MARYS COUNTY	Grade 8 ELA/Literacy	0	1,228	1,228	0%	100%
ST MARYS COUNTY	Grade 8 Mathematics	0	875	875	0%	100%
	Totals	4	18,137	18,141	0%	100%
SOMERSET COUNTY	Algebra I	0	121	121	0%	100%
SOMERSET COUNTY	Algebra II	0	46	46	0%	100%
SOMERSET COUNTY	Grade 10 ELA/Literacy	0	198	198	0%	100%
SOMERSET COUNTY	Grade 11 ELA/Literacy	0	1	1	0%	0%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
SOMERSET COUNTY	Grade 3 ELA/Literacy	0	225	225	0%	100%
SOMERSET COUNTY	Grade 3 Mathematics	0	224	224	0%	100%
SOMERSET COUNTY	Grade 4 ELA/Literacy	0	209	209	0%	100%
SOMERSET COUNTY	Grade 4 Mathematics	0	209	209	0%	100%
SOMERSET COUNTY	Grade 5 ELA/Literacy	0	221	221	0%	100%
SOMERSET COUNTY	Grade 5 Mathematics	0	220	220	0%	100%
SOMERSET COUNTY	Grade 6 ELA/Literacy	0	213	213	0%	100%
SOMERSET COUNTY	Grade 6 Mathematics	0	211	211	0%	100%
SOMERSET COUNTY	Grade 7 ELA/Literacy	0	184	184	0%	100%
SOMERSET COUNTY	Grade 7 Mathematics	0	184	184	0%	100%
SOMERSET COUNTY	Grade 8 ELA/Literacy	0	208	208	0%	100%
SOMERSET COUNTY	Grade 8 Mathematics	0	210	210	0%	100%
	Totals	0	2,884	2,884	0%	100%
TALBOT COUNTY	Algebra I	0	360	360	0%	100%
TALBOT COUNTY	Algebra II	0	221	221	0%	100%
TALBOT COUNTY	Grade 10 ELA/Literacy	0	298	298	0%	100%
TALBOT COUNTY	Grade 3 ELA/Literacy	0	340	340	0%	100%
TALBOT COUNTY	Grade 3 Mathematics	0	348	348	0%	100%
TALBOT COUNTY	Grade 4 ELA/Literacy	0	325	325	0%	100%
TALBOT COUNTY	Grade 4 Mathematics	0	328	328	0%	100%
TALBOT COUNTY	Grade 5 ELA/Literacy	0	325	325	0%	100%
TALBOT COUNTY	Grade 5 Mathematics	0	319	319	0%	100%
TALBOT COUNTY	Grade 6 ELA/Literacy	0	325	325	0%	100%
TALBOT COUNTY	Grade 6 Mathematics	0	328	328	0%	100%
TALBOT COUNTY	Grade 7 ELA/Literacy	0	352	352	0%	100%
TALBOT COUNTY	Grade 7 Mathematics	0	347	347	0%	100%
TALBOT COUNTY	Grade 8 ELA/Literacy	0	327	327	0%	100%
TALBOT COUNTY	Grade 8 Mathematics	0	226	226	0%	100%
	Totals	0	4,769	4,769	0%	100%
WASHINGTON COUNTY	Algebra I	7	1,756	1,763	0%	100%
WASHINGTON COUNTY	Algebra II	3	958	961	0%	100%
WASHINGTON COUNTY	Grade 10 ELA/Literacy	4	1,676	1,680	0%	100%
WASHINGTON COUNTY	Grade 3 ELA/Literacy	1	1,704	1,705	0%	100%
WASHINGTON COUNTY	Grade 3 Mathematics	1	1,700	1,701	0%	100%
WASHINGTON COUNTY	Grade 4 ELA/Literacy	1	1,653	1,654	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
WASHINGTON COUNTY	Grade 4 Mathematics	1	1,649	1,650	0%	100%
WASHINGTON COUNTY	Grade 5 ELA/Literacy	1	1,664	1,665	0%	100%
WASHINGTON COUNTY	Grade 5 Mathematics	1	1,635	1,636	0%	100%
WASHINGTON COUNTY	Grade 6 ELA/Literacy	2	1,702	1,704	0%	100%
WASHINGTON COUNTY	Grade 6 Mathematics	2	1,672	1,674	0%	100%
WASHINGTON COUNTY	Grade 7 ELA/Literacy	6	1,705	1,711	0%	100%
WASHINGTON COUNTY	Grade 7 Mathematics	6	1,689	1,695	0%	100%
WASHINGTON COUNTY	Grade 8 ELA/Literacy	3	1,625	1,628	0%	100%
WASHINGTON COUNTY	Grade 8 Mathematics	3	863	866	0%	100%
	Totals	42	23,651	23,693	0%	100%
WICOMICO COUNTY	Algebra I	0	724	724	0%	100%
WICOMICO COUNTY	Algebra II	0	487	487	0%	100%
WICOMICO COUNTY	Grade 10 ELA/Literacy	2	1,042	1,044	0%	100%
WICOMICO COUNTY	Grade 3 ELA/Literacy	0	1,118	1,118	0%	100%
WICOMICO COUNTY	Grade 3 Mathematics	0	1,107	1,107	0%	100%
WICOMICO COUNTY	Grade 4 ELA/Literacy	3	1,131	1,134	0%	100%
WICOMICO COUNTY	Grade 4 Mathematics	3	1,135	1,138	0%	100%
WICOMICO COUNTY	Grade 5 ELA/Literacy	1	973	974	0%	100%
WICOMICO COUNTY	Grade 5 Mathematics	1	967	968	0%	100%
WICOMICO COUNTY	Grade 6 ELA/Literacy	0	989	989	0%	100%
WICOMICO COUNTY	Grade 6 Mathematics	0	987	987	0%	100%
WICOMICO COUNTY	Grade 7 ELA/Literacy	0	971	971	0%	100%
WICOMICO COUNTY	Grade 7 Mathematics	0	972	972	0%	100%
WICOMICO COUNTY	Grade 8 ELA/Literacy	1	988	989	0%	100%
WICOMICO COUNTY	Grade 8 Mathematics	1	719	720	0%	100%
	Totals	12	14,310	14,322	0%	100%
WORCESTER COUNTY	Algebra I	12	276	288	4%	96%
WORCESTER COUNTY	Grade 10 ELA/Literacy	1	271	272	0%	100%
WORCESTER COUNTY	Grade 3 ELA/Literacy	0	442	442	0%	100%
WORCESTER COUNTY	Grade 3 Mathematics	0	442	442	0%	100%
WORCESTER COUNTY	Grade 4 ELA/Literacy	1	490	491	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
WORCESTER COUNTY	Grade 4 Mathematics	1	491	492	0%	100%
WORCESTER COUNTY	Grade 5 ELA/Literacy	0	476	476	0%	100%
WORCESTER COUNTY	Grade 5 Mathematics	0	475	475	0%	100%
WORCESTER COUNTY	Grade 6 ELA/Literacy	2	503	505	0%	100%
WORCESTER COUNTY	Grade 6 Mathematics	2	502	504	0%	100%
WORCESTER COUNTY	Grade 7 ELA/Literacy	0	436	436	0%	100%
WORCESTER COUNTY	Grade 7 Mathematics	0	443	443	0%	100%
WORCESTER COUNTY	Grade 8 ELA/Literacy	0	519	519	0%	100%
WORCESTER COUNTY	Grade 8 Mathematics	0	350	350	0%	100%
	Totals	19	6,116	6,135	0%	100%
LEA 24 SCHOOLS	Algebra I	144	294	438	33%	67%
LEA 24 SCHOOLS	Algebra II	28	76	104	27%	73%
LEA 24 SCHOOLS	Geometry	0	7	7	0%	100%
LEA 24 SCHOOLS	Grade 10 ELA/Literacy	108	227	335	32%	68%
LEA 24 SCHOOLS	Grade 11 ELA/Literacy	6	17	23	26%	74%
LEA 24 SCHOOLS	Grade 3 ELA/Literacy	57	74	131	44%	56%
LEA 24 SCHOOLS	Grade 3 Mathematics	57	74	131	44%	56%
LEA 24 SCHOOLS	Grade 4 ELA/Literacy	57	110	167	34%	66%
LEA 24 SCHOOLS	Grade 4 Mathematics	57	110	167	34%	66%
LEA 24 SCHOOLS	Grade 5 ELA/Literacy	57	146	203	28%	72%
LEA 24 SCHOOLS	Grade 5 Mathematics	57	140	197	29%	71%
LEA 24 SCHOOLS	Grade 6 ELA/Literacy	69	185	254	27%	73%
LEA 24 SCHOOLS	Grade 6 Mathematics	71	183	254	28%	72%
LEA 24 SCHOOLS	Grade 7 ELA/Literacy	92	218	310	30%	70%
LEA 24 SCHOOLS	Grade 7 Mathematics	92	213	305	30%	70%
LEA 24 SCHOOLS	Grade 8 ELA/Literacy	102	242	344	30%	70%
LEA 24 SCHOOLS	Grade 8 Mathematics	93	229	322	29%	71%
LEA 24 SCHOOLS	Grade 9 ELA/Literacy	7	23	30	23%	77%
	Totals	1,154	2,568	3,722	31%	69%
BALTIMORE CITY	Algebra I	8	4,609	4,617	0%	100%
BALTIMORE CITY	Algebra II	107	2,400	2,507	4%	96%
BALTIMORE CITY	Grade 10 ELA/Literacy	4,279	0	4,279	100%	0%
BALTIMORE CITY	Grade 11 ELA/Literacy	0	0	0	0%	0%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
BALTIMORE CITY	Grade 3 ELA/Literacy	6,416	0	6,416	0%	0%
BALTIMORE CITY	Grade 3 Mathematics	6,446	0	6,446	100%	0%
BALTIMORE CITY	Grade 4 ELA/Literacy	90	6,111	6,201	1%	99%
BALTIMORE CITY	Grade 4 Mathematics	59	6,092	6,151	1%	99%
BALTIMORE CITY	Grade 5 ELA/Literacy	66	5,876	5,942	1%	99%
BALTIMORE CITY	Grade 5 Mathematics	19	5,865	5,884	0%	100%
BALTIMORE CITY	Grade 6 ELA/Literacy	5,490	0	5,490	100%	0%
BALTIMORE CITY	Grade 6 Mathematics	5,505	0	5,505	100%	0%
BALTIMORE CITY	Grade 7 ELA/Literacy	63	5,237	5,300	1%	99%
BALTIMORE CITY	Grade 7 Mathematics	68	5,193	5,261	1%	99%
BALTIMORE CITY	Grade 8 ELA/Literacy	57	4,998	5,055	1%	99%
BALTIMORE CITY	Grade 8 Mathematics	73	4,540	4,613	2%	98%
BALTIMORE CITY	Grade 9 ELA/Literacy	0	0	0	0%	0%
	Totals	28,746	50,921	79,667	36%	64%
SEED SCHOOL OF MARYLAND	Algebra I	0	61	61	0%	0%
SEED SCHOOL OF MARYLAND	Algebra II	0	0	0	0%	0%
SEED SCHOOL OF MARYLAND	Grade 10 ELA/Literacy	0	56	56	0%	100%
SEED SCHOOL OF MARYLAND	Grade 6 ELA/Literacy	0	63	63	0%	0%
SEED SCHOOL OF MARYLAND	Grade 6 Mathematics	0	63	63	0%	100%
SEED SCHOOL OF MARYLAND	Grade 7 ELA/Literacy	0	77	77	0%	100%
SEED SCHOOL OF MARYLAND	Grade 7 Mathematics	0	76	76	0%	100%
SEED SCHOOL OF MARYLAND	Grade 8 ELA/Literacy	0	72	72	0%	100%
SEED SCHOOL OF MARYLAND	Grade 8 Mathematics	0	73	73	0%	100%
	Totals	0	541	541	0%	100%
STATE OF MARYLAND		**165,435**	**734,161**	**899,596**	**18%**	**82%**

EOY by County:

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
ALLEGANY COUNTY	Algebra I	0	616	616	0%	100%
ALLEGANY COUNTY	Algebra II	0	408	408	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
ALLEGANY COUNTY	Grade 10 ELA/Literacy	0	562	562	0%	100%
ALLEGANY COUNTY	Grade 3 ELA/Literacy	0	621	621	0%	100%
ALLEGANY COUNTY	Grade 3 Mathematics	0	620	620	0%	100%
ALLEGANY COUNTY	Grade 4 ELA/Literacy	0	599	599	0%	100%
ALLEGANY COUNTY	Grade 4 Mathematics	0	599	599	0%	100%
ALLEGANY COUNTY	Grade 5 ELA/Literacy	0	662	662	0%	100%
ALLEGANY COUNTY	Grade 5 Mathematics	0	661	661	0%	100%
ALLEGANY COUNTY	Grade 6 ELA/Literacy	0	607	607	0%	100%
ALLEGANY COUNTY	Grade 6 Mathematics	0	606	606	0%	100%
ALLEGANY COUNTY	Grade 7 ELA/Literacy	0	605	605	0%	100%
ALLEGANY COUNTY	Grade 7 Mathematics	0	604	604	0%	100%
ALLEGANY COUNTY	Grade 8 ELA/Literacy	0	608	608	0%	100%
ALLEGANY COUNTY	Grade 8 Mathematics	0	377	377	0%	100%
	Totals	0	8,755	8,755	0%	100%
ANNE ARUNDEL COUNTY	Algebra I	2,115	3,190	5,305	40%	60%
ANNE ARUNDEL COUNTY	Algebra II	54	4,470	4,524	1%	99%
ANNE ARUNDEL COUNTY	Grade 10 ELA/Literacy	0	5,321	5,321	0%	100%
ANNE ARUNDEL COUNTY	Grade 3 ELA/Literacy	5,970	78	6,048	99%	1%
ANNE ARUNDEL COUNTY	Grade 3 Mathematics	5,575	497	6,072	92%	8%
ANNE ARUNDEL COUNTY	Grade 4 ELA/Literacy	13	5,866	5,879	0%	100%
ANNE ARUNDEL COUNTY	Grade 4 Mathematics	13	5,887	5,900	0%	100%
ANNE ARUNDEL COUNTY	Grade 5 ELA/Literacy	4	5,921	5,925	0%	100%
ANNE ARUNDEL COUNTY	Grade 5 Mathematics	3	5,940	5,943	0%	100%
ANNE ARUNDEL COUNTY	Grade 6 ELA/Literacy	12	5,815	5,827	0%	100%
ANNE ARUNDEL COUNTY	Grade 6 Mathematics	8	5,769	5,777	0%	100%
ANNE ARUNDEL COUNTY	Grade 7 ELA/Literacy	5	5,717	5,722	0%	100%
ANNE ARUNDEL COUNTY	Grade 7 Mathematics	4	5,709	5,713	0%	100%
ANNE ARUNDEL COUNTY	Grade 8 ELA/Literacy	5,263	228	5,491	96%	4%
ANNE ARUNDEL COUNTY	Grade 8 Mathematics	2,950	440	3,390	87%	13%
	Totals	21,989	60,848	82,837	27%	73%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
BALTIMORE COUNTY	Algebra I	2,203	6,232	8,435	26%	74%
BALTIMORE COUNTY	Algebra II	279	3,663	3,942	7%	93%
BALTIMORE COUNTY	Grade 10 ELA/Literacy	1,319	5,896	7,215	18%	82%
BALTIMORE COUNTY	Grade 11 ELA/Literacy	0	0	0	0%	0%
BALTIMORE COUNTY	Grade 3 ELA/Literacy	5,506	2,996	8,502	65%	35%
BALTIMORE COUNTY	Grade 3 Mathematics	4,762	3,798	8,560	56%	44%
BALTIMORE COUNTY	Grade 4 ELA/Literacy	5,471	2,935	8,406	65%	35%
BALTIMORE COUNTY	Grade 4 Mathematics	4,742	3,730	8,472	56%	44%
BALTIMORE COUNTY	Grade 5 ELA/Literacy	5,202	2,932	8,134	64%	36%
BALTIMORE COUNTY	Grade 5 Mathematics	4,494	3,719	8,213	55%	45%
BALTIMORE COUNTY	Grade 6 ELA/Literacy	6,047	1,839	7,886	77%	23%
BALTIMORE COUNTY	Grade 6 Mathematics	2,812	5,113	7,925	35%	65%
BALTIMORE COUNTY	Grade 7 ELA/Literacy	5,870	1,741	7,611	77%	23%
BALTIMORE COUNTY	Grade 7 Mathematics	1,996	3,948	5,944	34%	66%
BALTIMORE COUNTY	Grade 8 ELA/Literacy	5,697	1,755	7,452	76%	24%
BALTIMORE COUNTY	Grade 8 Mathematics	1,264	2,607	3,871	33%	67%
	Totals	57,664	52,904	110,568	52%	48%
CALVERT COUNTY	Algebra I	0	1,340	1,340	0%	100%
CALVERT COUNTY	Algebra II	0	1,386	1,386	0%	100%
CALVERT COUNTY	Grade 10 ELA/Literacy	971	276	1,247	78%	22%
CALVERT COUNTY	Grade 3 ELA/Literacy	0	1,081	1,081	0%	100%
CALVERT COUNTY	Grade 3 Mathematics	0	1,086	1,086	0%	100%
CALVERT COUNTY	Grade 4 ELA/Literacy	1	1,106	1,107	0%	100%
CALVERT COUNTY	Grade 4 Mathematics	1	1,107	1,108	0%	100%
CALVERT COUNTY	Grade 5 ELA/Literacy	0	1,137	1,137	0%	100%
CALVERT COUNTY	Grade 5 Mathematics	0	1,141	1,141	0%	100%
CALVERT COUNTY	Grade 6 ELA/Literacy	482	782	1,264	38%	62%
CALVERT COUNTY	Grade 6 Mathematics	0	1,264	1,264	0%	100%
CALVERT COUNTY	Grade 7 ELA/Literacy	490	773	1,263	39%	61%
CALVERT COUNTY	Grade 7 Mathematics	0	880	880	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
CALVERT COUNTY	Grade 8 ELA/Literacy	451	766	1,217	37%	63%
CALVERT COUNTY	Grade 8 Mathematics	0	579	579	0%	100%
	Totals	2,396	14,704	17,100	14%	86%
CAROLINE COUNTY	Algebra I	0	252	252	0%	100%
CAROLINE COUNTY	Algebra II	0	162	162	0%	100%
CAROLINE COUNTY	Grade 10 ELA/Literacy	0	176	176	0%	100%
CAROLINE COUNTY	Grade 3 ELA/Literacy	0	431	431	0%	100%
CAROLINE COUNTY	Grade 3 Mathematics	0	432	432	0%	100%
CAROLINE COUNTY	Grade 4 ELA/Literacy	0	418	418	0%	100%
CAROLINE COUNTY	Grade 4 Mathematics	0	420	420	0%	100%
CAROLINE COUNTY	Grade 5 ELA/Literacy	0	402	402	0%	100%
CAROLINE COUNTY	Grade 5 Mathematics	0	404	404	0%	100%
CAROLINE COUNTY	Grade 6 ELA/Literacy	0	385	385	0%	100%
CAROLINE COUNTY	Grade 6 Mathematics	0	387	387	0%	100%
CAROLINE COUNTY	Grade 7 ELA/Literacy	0	426	426	0%	100%
CAROLINE COUNTY	Grade 7 Mathematics	0	425	425	0%	100%
CAROLINE COUNTY	Grade 8 ELA/Literacy	0	392	392	0%	100%
CAROLINE COUNTY	Grade 8 Mathematics	0	326	326	0%	100%
	Totals	0	5,438	5,438	0%	100%
CARROLL COUNTY	Algebra I	257	1,221	1,478	17%	83%
CARROLL COUNTY	Algebra II	1	1,036	1,037	0%	100%
CARROLL COUNTY	Grade 10 ELA/Literacy	203	1,273	1,476	14%	86%
CARROLL COUNTY	Grade 3 ELA/Literacy	1	1,813	1,814	0%	100%
CARROLL COUNTY	Grade 3 Mathematics	1	1,817	1,818	0%	100%
CARROLL COUNTY	Grade 4 ELA/Literacy	0	1,865	1,865	0%	100%
CARROLL COUNTY	Grade 4 Mathematics	0	1,868	1,868	0%	100%
CARROLL COUNTY	Grade 5 ELA/Literacy	0	1,944	1,944	0%	100%
CARROLL COUNTY	Grade 5 Mathematics	0	1,944	1,944	0%	100%
CARROLL COUNTY	Grade 6 ELA/Literacy	0	1,982	1,982	0%	100%
CARROLL COUNTY	Grade 6 Mathematics	0	1,985	1,985	0%	100%
CARROLL COUNTY	Grade 7 ELA/Literacy	1	2,028	2,029	0%	100%
CARROLL COUNTY	Grade 7 Mathematics	1	2,030	2,031	0%	100%
CARROLL COUNTY	Grade 8 ELA/Literacy	2	1,937	1,939	0%	100%
CARROLL COUNTY	Grade 8 Mathematics	2	1,579	1,581	0%	100%
	Totals	469	26,322	26,791	2%	98%
CECIL COUNTY	Algebra I	0	743	743	0%	100%
CECIL COUNTY	Algebra II	0	463	463	0%	100%
CECIL COUNTY	Grade 10 ELA/Literacy	0	717	717	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
CECIL COUNTY	Grade 3 ELA/Literacy	1	1,130	1,131	0%	100%
CECIL COUNTY	Grade 3 Mathematics	1	1,129	1,130	0%	100%
CECIL COUNTY	Grade 4 ELA/Literacy	0	1,144	1,144	0%	100%
CECIL COUNTY	Grade 4 Mathematics	0	1,150	1,150	0%	100%
CECIL COUNTY	Grade 5 ELA/Literacy	0	1,082	1,082	0%	100%
CECIL COUNTY	Grade 5 Mathematics	0	1,084	1,084	0%	100%
CECIL COUNTY	Grade 6 ELA/Literacy	0	1,111	1,111	0%	100%
CECIL COUNTY	Grade 6 Mathematics	0	1,112	1,112	0%	100%
CECIL COUNTY	Grade 7 ELA/Literacy	0	1,163	1,163	0%	100%
CECIL COUNTY	Grade 7 Mathematics	0	1,169	1,169	0%	100%
CECIL COUNTY	Grade 8 ELA/Literacy	0	1,134	1,134	0%	100%
CECIL COUNTY	Grade 8 Mathematics	0	802	802	0%	100%
	Totals	2	15,133	15,135	0%	100%
CHARLES COUNTY	Algebra I	6	1,731	1,737	0%	100%
CHARLES COUNTY	Algebra II	1	939	940	0%	100%
CHARLES COUNTY	Grade 10 ELA/Literacy	7	1,991	1,998	0%	100%
CHARLES COUNTY	Grade 3 ELA/Literacy	5	1,854	1,859	0%	100%
CHARLES COUNTY	Grade 3 Mathematics	5	1,855	1,860	0%	100%
CHARLES COUNTY	Grade 4 ELA/Literacy	6	1,847	1,853	0%	100%
CHARLES COUNTY	Grade 4 Mathematics	6	1,851	1,857	0%	100%
CHARLES COUNTY	Grade 5 ELA/Literacy	8	1,843	1,851	0%	100%
CHARLES COUNTY	Grade 5 Mathematics	8	1,847	1,855	0%	100%
CHARLES COUNTY	Grade 6 ELA/Literacy	3	1,886	1,889	0%	100%
CHARLES COUNTY	Grade 6 Mathematics	3	1,887	1,890	0%	100%
CHARLES COUNTY	Grade 7 ELA/Literacy	3	1,939	1,942	0%	100%
CHARLES COUNTY	Grade 7 Mathematics	3	1,939	1,942	0%	100%
CHARLES COUNTY	Grade 8 ELA/Literacy	3	1,868	1,871	0%	100%
CHARLES COUNTY	Grade 8 Mathematics	3	1,232	1,235	0%	100%
	Totals	70	26,509	26,579	0%	100%
DORCHESTER COUNTY	Algebra I	0	442	442	0%	100%
DORCHESTER COUNTY	Algebra II	0	38	38	0%	100%
DORCHESTER COUNTY	Grade 10 ELA/Literacy	0	270	270	0%	100%
DORCHESTER COUNTY	Grade 3 ELA/Literacy	0	378	378	0%	100%
DORCHESTER COUNTY	Grade 3 Mathematics	0	378	378	0%	100%
DORCHESTER COUNTY	Grade 4 ELA/Literacy	1	318	319	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
DORCHESTER COUNTY	Grade 4 Mathematics	1	317	318	0%	100%
DORCHESTER COUNTY	Grade 5 ELA/Literacy	1	364	365	0%	100%
DORCHESTER COUNTY	Grade 5 Mathematics	1	365	366	0%	100%
DORCHESTER COUNTY	Grade 6 ELA/Literacy	1	336	337	0%	100%
DORCHESTER COUNTY	Grade 6 Mathematics	1	337	338	0%	100%
DORCHESTER COUNTY	Grade 7 ELA/Literacy	0	288	288	0%	100%
DORCHESTER COUNTY	Grade 7 Mathematics	0	291	291	0%	100%
DORCHESTER COUNTY	Grade 8 ELA/Literacy	1	338	339	0%	100%
DORCHESTER COUNTY	Grade 8 Mathematics	1	253	254	0%	100%
	Totals	8	4,713	4,721	0%	100%
FREDERICK COUNTY	Algebra I	4	2,898	2,902	0%	100%
FREDERICK COUNTY	Algebra II	1	873	874	0%	100%
FREDERICK COUNTY	Grade 10 ELA/Literacy	3	1,546	1,549	0%	100%
FREDERICK COUNTY	Grade 3 ELA/Literacy	3,029	37	3,066	99%	1%
FREDERICK COUNTY	Grade 3 Mathematics	2,994	88	3,082	97%	3%
FREDERICK COUNTY	Grade 4 ELA/Literacy	4	2,984	2,988	0%	100%
FREDERICK COUNTY	Grade 4 Mathematics	3	3,002	3,005	0%	100%
FREDERICK COUNTY	Grade 5 ELA/Literacy	4	2,924	2,928	0%	100%
FREDERICK COUNTY	Grade 5 Mathematics	4	2,936	2,940	0%	100%
FREDERICK COUNTY	Grade 6 ELA/Literacy	2,970	5	2,975	100%	0%
FREDERICK COUNTY	Grade 6 Mathematics	2,984	9	2,993	100%	0%
FREDERICK COUNTY	Grade 7 ELA/Literacy	6	2,914	2,920	0%	100%
FREDERICK COUNTY	Grade 7 Mathematics	6	2,927	2,933	0%	100%
FREDERICK COUNTY	Grade 8 ELA/Literacy	3	2,943	2,946	0%	100%
FREDERICK COUNTY	Grade 8 Mathematics	2	2,340	2,342	0%	100%
	Totals	12,017	28,426	40,443	30%	70%
GARRETT COUNTY	Algebra I	0	282	282	0%	100%
GARRETT COUNTY	Algebra II	1	114	115	1%	99%
GARRETT COUNTY	Grade 10 ELA/Literacy	0	141	141	0%	100%
GARRETT COUNTY	Grade 3 ELA/Literacy	0	278	278	0%	100%
GARRETT COUNTY	Grade 3 Mathematics	0	278	278	0%	100%
GARRETT COUNTY	Grade 4 ELA/Literacy	0	292	292	0%	100%
GARRETT COUNTY	Grade 4 Mathematics	0	292	292	0%	100%
GARRETT COUNTY	Grade 5 ELA/Literacy	0	302	302	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
GARRETT COUNTY	Grade 5 Mathematics	0	300	300	0%	100%
GARRETT COUNTY	Grade 6 ELA/Literacy	0	288	288	0%	100%
GARRETT COUNTY	Grade 6 Mathematics	0	288	288	0%	100%
GARRETT COUNTY	Grade 7 ELA/Literacy	2	265	267	1%	99%
GARRETT COUNTY	Grade 7 Mathematics	2	265	267	1%	99%
GARRETT COUNTY	Grade 8 ELA/Literacy	0	268	268	0%	100%
GARRETT COUNTY	Grade 8 Mathematics	0	194	194	0%	100%
	Totals	5	3,847	3,852	0%	100%
HARFORD COUNTY	Algebra I	2,919	0	2,919	100%	0%
HARFORD COUNTY	Algebra II	2,490	0	2,490	100%	0%
HARFORD COUNTY	Grade 10 ELA/Literacy	2,697	0	2,697	100%	0%
HARFORD COUNTY	Grade 3 ELA/Literacy	2,814	0	2,814	100%	0%
HARFORD COUNTY	Grade 3 Mathematics	2,820	0	2,820	100%	0%
HARFORD COUNTY	Grade 4 ELA/Literacy	2,777	0	2,777	100%	0%
HARFORD COUNTY	Grade 4 Mathematics	2,782	0	2,782	100%	0%
HARFORD COUNTY	Grade 5 ELA/Literacy	2,841	0	2,841	100%	0%
HARFORD COUNTY	Grade 5 Mathematics	2,844	0	2,844	100%	0%
HARFORD COUNTY	Grade 6 ELA/Literacy	2,784	0	2,784	100%	0%
HARFORD COUNTY	Grade 6 Mathematics	2,788	0	2,788	100%	0%
HARFORD COUNTY	Grade 7 ELA/Literacy	2,883	0	2,883	100%	0%
HARFORD COUNTY	Grade 7 Mathematics	2,137	0	2,137	100%	0%
HARFORD COUNTY	Grade 8 ELA/Literacy	2,643	0	2,643	100%	0%
HARFORD COUNTY	Grade 8 Mathematics	1,852	0	1,852	100%	0%
	Totals	40,071	0	40,071	100%	0%
HOWARD COUNTY	Algebra I	11	4,480	4,491	0%	100%
HOWARD COUNTY	Algebra II	13	3,929	3,942	0%	100%
HOWARD COUNTY	Grade 10 ELA/Literacy	13	3,898	3,911	0%	100%
HOWARD COUNTY	Grade 3 ELA/Literacy	8	3,969	3,977	0%	100%
HOWARD COUNTY	Grade 3 Mathematics	8	3,997	4,005	0%	100%
HOWARD COUNTY	Grade 4 ELA/Literacy	12	3,946	3,958	0%	100%
HOWARD COUNTY	Grade 4 Mathematics	12	3,971	3,983	0%	100%
HOWARD COUNTY	Grade 5 ELA/Literacy	9	4,086	4,095	0%	100%
HOWARD COUNTY	Grade 5 Mathematics	9	4,099	4,108	0%	100%
HOWARD COUNTY	Grade 6 ELA/Literacy	5	4,110	4,115	0%	100%
HOWARD COUNTY	Grade 6 Mathematics	5	4,117	4,122	0%	100%
HOWARD COUNTY	Grade 7 ELA/Literacy	8	4,070	4,078	0%	100%
HOWARD COUNTY	Grade 7 Mathematics	8	2,784	2,792	0%	100%
HOWARD COUNTY	Grade 8 ELA/Literacy	11	3,938	3,949	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
HOWARD COUNTY	Grade 8 Mathematics	11	2,539	2,550	0%	100%
	Totals	143	57,933	58,076	0%	100%
KENT COUNTY	Algebra I	0	140	140	0%	100%
KENT COUNTY	Algebra II	0	67	67	0%	100%
KENT COUNTY	Grade 10 ELA/Literacy	0	144	144	0%	100%
KENT COUNTY	Grade 3 ELA/Literacy	0	174	174	0%	100%
KENT COUNTY	Grade 3 Mathematics	0	174	174	0%	100%
KENT COUNTY	Grade 4 ELA/Literacy	0	136	136	0%	100%
KENT COUNTY	Grade 4 Mathematics	0	134	134	0%	100%
KENT COUNTY	Grade 5 ELA/Literacy	0	150	150	0%	100%
KENT COUNTY	Grade 5 Mathematics	0	149	149	0%	100%
KENT COUNTY	Grade 6 ELA/Literacy	0	146	146	0%	100%
KENT COUNTY	Grade 6 Mathematics	0	146	146	0%	100%
KENT COUNTY	Grade 7 ELA/Literacy	0	143	143	0%	100%
KENT COUNTY	Grade 7 Mathematics	0	143	143	0%	100%
KENT COUNTY	Grade 8 ELA/Literacy	1	135	136	1%	99%
KENT COUNTY	Grade 8 Mathematics	1	102	103	1%	99%
	Totals	2	2,083	2,085	0%	100%
MONTGOMERY COUNTY	Algebra I	5	11,004	11,009	0%	100%
MONTGOMERY COUNTY	Algebra II	1	8,345	8,346	0%	100%
MONTGOMERY COUNTY	Grade 10 ELA/Literacy	2	9,823	9,825	0%	100%
MONTGOMERY COUNTY	Grade 3 ELA/Literacy	13	11,662	11,675	0%	100%
MONTGOMERY COUNTY	Grade 3 Mathematics	13	11,770	11,783	0%	100%
MONTGOMERY COUNTY	Grade 4 ELA/Literacy	8	11,404	11,412	0%	100%
MONTGOMERY COUNTY	Grade 4 Mathematics	8	11,505	11,513	0%	100%
MONTGOMERY COUNTY	Grade 5 ELA/Literacy	10	11,419	11,429	0%	100%
MONTGOMERY COUNTY	Grade 5 Mathematics	10	11,496	11,506	0%	100%
MONTGOMERY COUNTY	Grade 6 ELA/Literacy	8	11,036	11,044	0%	100%
MONTGOMERY COUNTY	Grade 6 Mathematics	8	11,106	11,114	0%	100%
MONTGOMERY COUNTY	Grade 7 ELA/Literacy	7	10,854	10,861	0%	100%
MONTGOMERY COUNTY	Grade 7 Mathematics	7	8,723	8,730	0%	100%
MONTGOMERY COUNTY	Grade 8 ELA/Literacy	10	10,636	10,646	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
MONTGOMERY COUNTY	Grade 8 Mathematics	6	6,216	6,222	0%	100%
	Totals	116	156,999	157,115	0%	100%
PRINCE GEORGES COUNTY	Algebra I	0	9,064	9,064	0%	100%
PRINCE GEORGES COUNTY	Algebra II	0	5,175	5,175	0%	100%
PRINCE GEORGES COUNTY	Grade 10 ELA/Literacy	0	7,332	7,332	0%	100%
PRINCE GEORGES COUNTY	Grade 3 ELA/Literacy	6	9,553	9,559	0%	100%
PRINCE GEORGES COUNTY	Grade 3 Mathematics	6	9,681	9,687	0%	100%
PRINCE GEORGES COUNTY	Grade 4 ELA/Literacy	7	9,223	9,230	0%	100%
PRINCE GEORGES COUNTY	Grade 4 Mathematics	7	9,300	9,307	0%	100%
PRINCE GEORGES COUNTY	Grade 5 ELA/Literacy	2	9,078	9,080	0%	100%
PRINCE GEORGES COUNTY	Grade 5 Mathematics	2	9,222	9,224	0%	100%
PRINCE GEORGES COUNTY	Grade 6 ELA/Literacy	3	8,818	8,821	0%	100%
PRINCE GEORGES COUNTY	Grade 6 Mathematics	3	8,724	8,727	0%	100%
PRINCE GEORGES COUNTY	Grade 7 ELA/Literacy	2	8,727	8,729	0%	100%
PRINCE GEORGES COUNTY	Grade 7 Mathematics	2	8,605	8,607	0%	100%
PRINCE GEORGES COUNTY	Grade 8 ELA/Literacy	1	8,441	8,442	0%	100%
PRINCE GEORGES COUNTY	Grade 8 Mathematics	1	7,662	7,663	0%	100%
	Totals	42	128,605	128,647	0%	100%
QUEEN ANNES COUNTY	Algebra I	2	508	510	0%	100%
QUEEN ANNES COUNTY	Algebra II	0	378	378	0%	100%
QUEEN ANNES COUNTY	Grade 10 ELA/Literacy	2	318	320	1%	99%
QUEEN ANNES COUNTY	Grade 3 ELA/Literacy	2	583	585	0%	100%
QUEEN ANNES COUNTY	Grade 3 Mathematics	0	588	588	0%	100%
QUEEN ANNES COUNTY	Grade 4 ELA/Literacy	1	575	576	0%	100%
QUEEN ANNES COUNTY	Grade 4 Mathematics	0	576	576	0%	100%
QUEEN ANNES COUNTY	Grade 5 ELA/Literacy	0	591	591	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
QUEEN ANNES COUNTY	Grade 5 Mathematics	0	591	591	0%	100%
QUEEN ANNES COUNTY	Grade 6 ELA/Literacy	2	569	571	0%	100%
QUEEN ANNES COUNTY	Grade 6 Mathematics	1	571	572	0%	100%
QUEEN ANNES COUNTY	Grade 7 ELA/Literacy	1	625	626	0%	100%
QUEEN ANNES COUNTY	Grade 7 Mathematics	1	627	628	0%	100%
QUEEN ANNES COUNTY	Grade 8 ELA/Literacy	1	535	536	0%	100%
QUEEN ANNES COUNTY	Grade 8 Mathematics	1	360	361	0%	100%
	Totals	14	7,995	8,009	0%	100%
ST MARYS COUNTY	Algebra I	0	900	900	0%	100%
ST MARYS COUNTY	Algebra II	0	875	875	0%	100%
ST MARYS COUNTY	Grade 10 ELA/Literacy	0	1,178	1,178	0%	100%
ST MARYS COUNTY	Grade 3 ELA/Literacy	1	1,315	1,316	0%	100%
ST MARYS COUNTY	Grade 3 Mathematics	1	1,319	1,320	0%	100%
ST MARYS COUNTY	Grade 4 ELA/Literacy	0	1,365	1,365	0%	100%
ST MARYS COUNTY	Grade 4 Mathematics	0	1,366	1,366	0%	100%
ST MARYS COUNTY	Grade 5 ELA/Literacy	1	1,277	1,278	0%	100%
ST MARYS COUNTY	Grade 5 Mathematics	1	1,280	1,281	0%	100%
ST MARYS COUNTY	Grade 6 ELA/Literacy	0	1,282	1,282	0%	100%
ST MARYS COUNTY	Grade 6 Mathematics	0	1,283	1,283	0%	100%
ST MARYS COUNTY	Grade 7 ELA/Literacy	0	1,278	1,278	0%	100%
ST MARYS COUNTY	Grade 7 Mathematics	0	1,227	1,227	0%	100%
ST MARYS COUNTY	Grade 8 ELA/Literacy	0	1,223	1,223	0%	100%
ST MARYS COUNTY	Grade 8 Mathematics	0	880	880	0%	100%
	Totals	4	18,048	18,052	0%	100%
SOMERSET COUNTY	Algebra I	0	122	122	0%	100%
SOMERSET COUNTY	Algebra II	0	46	46	0%	100%
SOMERSET COUNTY	Grade 10 ELA/Literacy	0	182	182	0%	100%
SOMERSET COUNTY	Grade 11 ELA/Literacy	0	0	0	0%	0%
SOMERSET COUNTY	Grade 3 ELA/Literacy	0	223	223	0%	100%
SOMERSET COUNTY	Grade 3 Mathematics	0	223	223	0%	100%
SOMERSET COUNTY	Grade 4 ELA/Literacy	0	207	207	0%	100%
SOMERSET COUNTY	Grade 4 Mathematics	0	207	207	0%	100%
SOMERSET COUNTY	Grade 5 ELA/Literacy	0	219	219	0%	100%
SOMERSET COUNTY	Grade 5 Mathematics	0	219	219	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
SOMERSET COUNTY	Grade 6 ELA/Literacy	0	218	218	0%	100%
SOMERSET COUNTY	Grade 6 Mathematics	0	213	213	0%	100%
SOMERSET COUNTY	Grade 7 ELA/Literacy	0	182	182	0%	100%
SOMERSET COUNTY	Grade 7 Mathematics	0	182	182	0%	100%
SOMERSET COUNTY	Grade 8 ELA/Literacy	0	206	206	0%	100%
SOMERSET COUNTY	Grade 8 Mathematics	0	206	206	0%	100%
SOMERSET COUNTY	Grade 9 ELA/Literacy	0	0	0	0%	0%
	Totals	0	2,855	2,855	0%	100%
TALBOT COUNTY	Algebra I	0	352	352	0%	100%
TALBOT COUNTY	Algebra II	0	219	219	0%	100%
TALBOT COUNTY	Grade 10 ELA/Literacy	0	300	300	0%	100%
TALBOT COUNTY	Grade 3 ELA/Literacy	0	337	337	0%	100%
TALBOT COUNTY	Grade 3 Mathematics	0	340	340	0%	100%
TALBOT COUNTY	Grade 4 ELA/Literacy	0	322	322	0%	100%
TALBOT COUNTY	Grade 4 Mathematics	0	327	327	0%	100%
TALBOT COUNTY	Grade 5 ELA/Literacy	0	318	318	0%	100%
TALBOT COUNTY	Grade 5 Mathematics	0	318	318	0%	100%
TALBOT COUNTY	Grade 6 ELA/Literacy	0	326	326	0%	100%
TALBOT COUNTY	Grade 6 Mathematics	0	326	326	0%	100%
TALBOT COUNTY	Grade 7 ELA/Literacy	0	348	348	0%	100%
TALBOT COUNTY	Grade 7 Mathematics	0	348	348	0%	100%
TALBOT COUNTY	Grade 8 ELA/Literacy	0	322	322	0%	100%
TALBOT COUNTY	Grade 8 Mathematics	0	220	220	0%	100%
	Totals	0	4,723	4,723	0%	100%
WASHINGTON COUNTY	Algebra I	6	1,716	1,722	0%	100%
WASHINGTON COUNTY	Algebra II	3	915	918	0%	100%
WASHINGTON COUNTY	Grade 10 ELA/Literacy	4	1,565	1,569	0%	100%
WASHINGTON COUNTY	Grade 3 ELA/Literacy	3	1,665	1,668	0%	100%
WASHINGTON COUNTY	Grade 3 Mathematics	3	1,671	1,674	0%	100%
WASHINGTON COUNTY	Grade 4 ELA/Literacy	0	1,630	1,630	0%	100%
WASHINGTON COUNTY	Grade 4 Mathematics	0	1,631	1,631	0%	100%
WASHINGTON COUNTY	Grade 5 ELA/Literacy	2	1,611	1,613	0%	100%
WASHINGTON COUNTY	Grade 5 Mathematics	3	1,613	1,616	0%	100%
WASHINGTON COUNTY	Grade 6 ELA/Literacy	4	1,668	1,672	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
WASHINGTON COUNTY	Grade 6 Mathematics	3	1,675	1,678	0%	100%
WASHINGTON COUNTY	Grade 7 ELA/Literacy	3	1,654	1,657	0%	100%
WASHINGTON COUNTY	Grade 7 Mathematics	3	1,655	1,658	0%	100%
WASHINGTON COUNTY	Grade 8 ELA/Literacy	3	1,571	1,574	0%	100%
WASHINGTON COUNTY	Grade 8 Mathematics	3	854	857	0%	100%
	Totals	43	23,094	23,137	0%	100%
WICOMICO COUNTY	Algebra I	0	698	698	0%	100%
WICOMICO COUNTY	Algebra II	0	486	486	0%	100%
WICOMICO COUNTY	Grade 10 ELA/Literacy	1	1,018	1,019	0%	100%
WICOMICO COUNTY	Grade 3 ELA/Literacy	0	1,099	1,099	0%	100%
WICOMICO COUNTY	Grade 3 Mathematics	0	1,102	1,102	0%	100%
WICOMICO COUNTY	Grade 4 ELA/Literacy	2	1,130	1,132	0%	100%
WICOMICO COUNTY	Grade 4 Mathematics	2	1,134	1,136	0%	100%
WICOMICO COUNTY	Grade 5 ELA/Literacy	1	957	958	0%	100%
WICOMICO COUNTY	Grade 5 Mathematics	1	964	965	0%	100%
WICOMICO COUNTY	Grade 6 ELA/Literacy	0	982	982	0%	100%
WICOMICO COUNTY	Grade 6 Mathematics	0	989	989	0%	100%
WICOMICO COUNTY	Grade 7 ELA/Literacy	0	962	962	0%	100%
WICOMICO COUNTY	Grade 7 Mathematics	0	965	965	0%	100%
WICOMICO COUNTY	Grade 8 ELA/Literacy	1	973	974	0%	100%
WICOMICO COUNTY	Grade 8 Mathematics	1	711	712	0%	100%
	Totals	9	14,170	14,179	0%	100%
WORCESTER COUNTY	Algebra I	12	277	289	4%	96%
WORCESTER COUNTY	Grade 10 ELA/Literacy	1	271	272	0%	100%
WORCESTER COUNTY	Grade 3 ELA/Literacy	0	442	442	0%	100%
WORCESTER COUNTY	Grade 3 Mathematics	0	442	442	0%	100%
WORCESTER COUNTY	Grade 4 ELA/Literacy	1	492	493	0%	100%
WORCESTER COUNTY	Grade 4 Mathematics	1	493	494	0%	100%
WORCESTER COUNTY	Grade 5 ELA/Literacy	0	481	481	0%	100%
WORCESTER COUNTY	Grade 5 Mathematics	0	481	481	0%	100%
WORCESTER COUNTY	Grade 6 ELA/Literacy	2	504	506	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
WORCESTER COUNTY	Grade 6 Mathematics	2	502	504	0%	100%
WORCESTER COUNTY	Grade 7 ELA/Literacy	0	444	444	0%	100%
WORCESTER COUNTY	Grade 7 Mathematics	0	443	443	0%	100%
WORCESTER COUNTY	Grade 8 ELA/Literacy	0	526	526	0%	100%
WORCESTER COUNTY	Grade 8 Mathematics	0	355	355	0%	100%
	Totals	28	20,323	20,351	0%	100%
LEA 24 SCHOOLS	Algebra I	110	251	361	30%	70%
LEA 24 SCHOOLS	Algebra II	25	76	101	25%	75%
LEA 24 SCHOOLS	Geometry	0	6	6	0%	100%
LEA 24 SCHOOLS	Grade 10 ELA/Literacy	69	215	284	24%	76%
LEA 24 SCHOOLS	Grade 11 ELA/Literacy	0	17	17	0%	100%
LEA 24 SCHOOLS	Grade 3 ELA/Literacy	43	79	122	35%	65%
LEA 24 SCHOOLS	Grade 3 Mathematics	51	77	128	40%	60%
LEA 24 SCHOOLS	Grade 4 ELA/Literacy	42	104	146	29%	71%
LEA 24 SCHOOLS	Grade 4 Mathematics	53	104	157	34%	66%
LEA 24 SCHOOLS	Grade 5 ELA/Literacy	46	131	177	26%	74%
LEA 24 SCHOOLS	Grade 5 Mathematics	51	129	180	28%	72%
LEA 24 SCHOOLS	Grade 6 ELA/Literacy	75	176	251	30%	70%
LEA 24 SCHOOLS	Grade 6 Mathematics	82	175	257	32%	68%
LEA 24 SCHOOLS	Grade 7 ELA/Literacy	74	206	280	26%	74%
LEA 24 SCHOOLS	Grade 7 Mathematics	85	209	294	29%	71%
LEA 24 SCHOOLS	Grade 8 ELA/Literacy	74	237	311	24%	76%
LEA 24 SCHOOLS	Grade 8 Mathematics	84	219	303	28%	72%
LEA 24 SCHOOLS	Grade 9 ELA/Literacy	0	27	27	0%	100%
	Totals	829	2,105	2,934	28%	72%
BALTIMORE CITY	Algebra I	7	4,266	4,273	0%	100%
BALTIMORE CITY	Algebra II	111	2,151	2,262	5%	95%
BALTIMORE CITY	Grade 10 ELA/Literacy	3,935	0	3,935	100%	0%
BALTIMORE CITY	Grade 11 ELA/Literacy	0	0	0	0%	0%
BALTIMORE CITY	Grade 3 ELA/Literacy	6,371	1	6,372	100%	0%
BALTIMORE CITY	Grade 3 Mathematics	6,411	0	6,411	100%	0%
BALTIMORE CITY	Grade 4 ELA/Literacy	84	5,925	6,009	1%	99%
BALTIMORE CITY	Grade 4 Mathematics	52	5,975	6,027	1%	99%
BALTIMORE CITY	Grade 5 ELA/Literacy	65	5,746	5,811	1%	99%
BALTIMORE CITY	Grade 5 Mathematics	15	5,820	5,835	0%	100%

Organization	Test	Paper - Completed	Online - Completed	Totals	% Paper	% Online
BALTIMORE CITY	Grade 6 ELA/Literacy	5,359	0	5,359	100%	0%
BALTIMORE CITY	Grade 6 Mathematics	5,412	0	5,412	100%	0%
BALTIMORE CITY	Grade 7 ELA/Literacy	54	5,051	5,105	1%	99%
BALTIMORE CITY	Grade 7 Mathematics	68	5,159	5,227	1%	99%
BALTIMORE CITY	Grade 8 ELA/Literacy	61	4,792	4,853	1%	99%
BALTIMORE CITY	Grade 8 Mathematics	82	4,419	4,501	2%	98%
BALTIMORE CITY	Grade 9 ELA/Literacy	0	0	0	0%	0%
	Totals	27,969	42,888	70,857	39%	61%
SEED SCHOOL OF MARYLAND	Algebra I	0	57	57	0%	100%
SEED SCHOOL OF MARYLAND	Algebra II	0	0	0	0%	0%
SEED SCHOOL OF MARYLAND	Grade 10 ELA/Literacy	0	47	47	0%	100%
SEED SCHOOL OF MARYLAND	Grade 6 ELA/Literacy	0	59	59	0%	100%
SEED SCHOOL OF MARYLAND	Grade 6 Mathematics	0	59	59	0%	100%
SEED SCHOOL OF MARYLAND	Grade 7 ELA/Literacy	0	69	69	0%	100%
SEED SCHOOL OF MARYLAND	Grade 7 Mathematics	0	73	73	0%	100%
SEED SCHOOL OF MARYLAND	Grade 8 ELA/Literacy	0	73	73	0%	100%
SEED SCHOOL OF MARYLAND	Grade 8 Mathematics	0	73	73	0%	100%
	Totals	0	510	510	0%	100%
STATE OF MARYLAND	**Totals**	**163,890**	**729,930**	**893,820**	**18%**	**82%**

Attachment 2: PARCC State Assessment Issues- LEA Feedback

Issue/ Concern	Description	Action
New/Unaddressed	As of 10/20/2015	
Nothing new to report at this time.		
Ongoing/In-progress	As of 10/20/2015	
Testing Mode Comparability	Mean scores of online testers are a few points lower than those testing on paper. There are three possible reasons: 1. Greater concentration of higher performing students took paper, 2. Familiarity with the online platform and tools had a negative impact, or 3. The online test form was simply harder.	The test construction process should have addressed reasons two and three. Initial research in MD suggests the first reason seems the most plausible. Only 18% of students took the test on paper. Of these included all of Harford County, a portion of Frederick, Baltimore and Ann Arundel. Maryland as well as the consortium as a whole continue to research this as more information is available.
Pearson Customer Service Center	During the 2014-15 administration, wait times for the Customer Service Center were too long during critical times (i.e. early in the school day)	Pearson has made contractual changes by adding additional resources as well as changing subcontractors.
Technology Device Deficiency	Not enough devices to test kids online – especially without impacting instruction. 2014 initial survey reported an expected need of 75% paper. **Harford County has reported a continued need for 100% paper.**	Through various means including the approximately $8M appropriated to local districts to increase device inventory (Race to the Top funding) as well as creative scheduling, districts were able to assess 82% online.
Parent Opt-Out issues	Although few students in MD did not participate on the PARCC tests, Opting out of the test continues to be a political issue through social media.	MSDE continues to provide locals with messaging emphasizing the benefits of assessments as well as shares its safeguards around student privacy and data usage. MSDE also continues to provide guidance on interpretation of legal language to support schools.
Internet Connectivity	Some districts/schools continue to experience internet connectivity issues.	MSDE will continue to assist local districts in troubleshooting connectivity issues during system load testing during the Fall, 2015 administration. Also test platform and design have implemented safe guards to preserve student responses and the testing as a whole in order to minimize disruptions for students.
Student Unfamiliarity with Online Testing	One of the strengths of the PARCC tests is the inclusion of constructed response items in both ELA and math. To respond, students need to be familiar with typing in text boxes as well as utilizing the various cutting edge accessibility features including the math equation editor as well as the test to speech.	Research indicates that this student unfamiliarity with online testing does not have an impact on student performance. With that said, MSDE along with the consortium have created training modules as well as have posted practice and sample tests for stakeholders to review. These will continue to be updated as more information is made available. The goal is to incorporate the use of the technology associated with the assessment as part of daily instructional practice.
Insufficient Staffing	Testing requires staffing for both testing and accommodating students.	MSDE has worked with LEAs on creating sample scheduling models for schools and continue to explore possibilities to maximize the benefit of computers in testing to minimize the need for accommodators (i.e. electronic text to speech instead of the need for an in-person read aloud accommodator).
Lack of training on PearsonAccess Next	PA Next is the system used the register and monitor students for PARCC. Because of the newness of the program, additional training opportunities are needed for new users.	New short training modules created by Pearson and MSDE communicating information through training modules, email, blog and webinars

Issue/ Concern	Description	Action
Resolved/Continue to Monitor	As of 10/20/2015	
Java Updates	The testing platform TestNav 8 was originally dependant on JAVA for security. The updates would have to be installed on machines and updated regularly. If update missed, machine could not be used for testing	Pearson has developed an app that can be installed on each machine thus bypassing the need for any particular browser or need for JAVA updates.
Two Testing Windows	Two testing windows is causing too much disruption to instruction.	MSDE worked with the PARCC consortium on the test design. 2015-16 admin will include only one window.
Test Time	The PARCC tests are too long.	Test redesign trimmed an average of 90 minutes off each content without impacting the number of standards measured. The consortium continues to study the test itself looking for more efficiencies for future administrations.
Personal Needs Profile (PNP) Complexity	The PNP is used to identify the particular accessibility features needed by individual students when testing. This file submission is new and requires multiple data sources to complete the file.	MSDE will communicate information through training modules, emails, blogs and webinars monthly beginning in Fall, 2015. MSDE staff working directly with Pearson have created training modules to meet the needs of LACs and school test coordinators (STC) to better understand reasons for and the use of the PNP. MSDE will continue to monitor and determine ways to make this process more efficient moving forward.
Online test platform (TestNav 8) issues	There have been reported issues concerning several of the new accessibility tools available to students. Test-to-Speech, Drag and Drop, use of the highlighter, and the equation editor for math.	MSDE and the consortium as a whole have worked closely with Pearson to quality assure these features and have developed training modules and practice tests for stakeholders to engage.
Browser Issues	The testing platform TestNav 8 was originally dependant on JAVA for security. Chrome no longer supports JAVA and many of the districts use Chrome exclusively.	Pearson has developed an app that can be installed on each machine thus bypassing the need for any particular browser or need for JAVA updates.
Student Mobility	Because of the time between the PBA and EOY windows students moving between districts was an issue. Student moving during a particular window is also an issue.	PARCC tests have been redesigned to include only one window moving forward. For those students transferring from LEA to LEA during the testing window, functionality has been built into the system permitting state personnel to transfer the students' electronic tests to the new district.
Test Item Complexity	PARCC has new types of test items that require students to do things that they are not used to…	MSDE has posted training modules as well as practice tests and other training tools to familiarize stakeholders with the new test item formats.